

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11114	24186	37818	8.1	3.0E-48	BF514170.1	EST_HUMAN	UHH-BW1-ant-e-10-Q-UJ.s1 NCI CGAP_Sub57 Homo sapiens cDNA clone IMAGE:3082267 3'
5	13244	26245	0.66	2.0E-48	AA465007.1	EST_HUMAN	z680c03.1 Scarses ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:810052 5'
46	13285	26294	1.7	2.0E-48	AA631940.1	EST_HUMAN	hm67 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR17-28
4654	17790	30774	0.99	2.0E-48	BE246095.1	EST_HUMAN	TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP3842
5935	19121	32433	0.64	2.0E-48	AA613171.1	EST_HUMAN	no18g01.s1 NCI CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
5936	19121	32434	0.64	2.0E-48	AA613171.1	EST_HUMAN	no18g01.s1 NCI CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
7688	20753	34236	3.99	2.0E-48	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
7688	20753	34237	3.99	2.0E-48	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
7703	20768	34253	3.54	2.0E-48	11496238	NT	Homo sapiens v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3 (p65)) (REL), mRNA
8550	21631	35168	1.13	2.0E-48	AV743451	EST_HUMAN	AV743451 GB Homo sapiens cDNA clone CBCCGG10 5'
12109	25089		1.36	2.0E-48	AW291799.1	EST_HUMAN	UI-H-B12-agi-b-11-Q-UJ.s1 NCI CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724463 3'
12320	13244	26245	2.98	2.0E-48	AA465007.1	EST_HUMAN	z680c03.1 Scarses ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:810052 5'
12674	25990	31771	1.25	2.0E-48	BE737154.1	EST_HUMAN	601305064F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639782 5'
57	13295	26311	2.33	1.0E-48	7706534	NT	Homo sapiens cisplatin resistance-associated overexpressed protein (LOC61747), mRNA
896	14072	27137	4.67	1.0E-48	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1101	14286	27323	1.52	1.0E-48	7857430	NT	Homo sapiens EBNA-2 co-activator (100kD) (p100), mRNA
1101	14286	27324	1.52	1.0E-48	7857430	NT	Homo sapiens EBNA-2 co-activator (100kD) (p100), mRNA
1324	14481	27548	4.01	1.0E-48	6032032	NT	Homo sapiens RNA binding motif protein 6 (RBM6) mRNA
1968	15111	28212	13.8	1.0E-48	AL163302.2	NT	Homo sapiens chromosome 21 segment HS21C102
3577	16742	29759	0.94	1.0E-48	AL163245.2	NT	Homo sapiens chromosome 21 segment HS21C048
5240	18362	31330	1.1	1.0E-48	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
6417	19686	32948	1.24	1.0E-48	A1899077.1	EST_HUMAN	td17a01.x1 NCI CGAP_Cot16 Homo sapiens cDNA clone IMAGE:2076904 3' similar to TR:O14588 O14588 SIMILARITY TO U73941;
6417	19686	32949	1.24	1.0E-48	A1899077.1	EST_HUMAN	td17a01.x1 NCI CGAP_Cot16 Homo sapiens cDNA clone IMAGE:2076904 3' similar to TR:O14588 O14588 SIMILARITY TO U73941;
6628	19788		0.87	1.0E-48	Y18000.1	NT	Homo sapiens NF2 gene
6727	19983	33274	0.59	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
6727	19983	33275	0.59	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
7407	20485	33954	2.21	1.0E-48	4756137	NT	Homo sapiens huntingtin (Huntington disease) (HD) mRNA
9031	22110	35651	0.65	1.0E-48	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA
9031	22110	35652	0.65	1.0E-48	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase 13 (MAP3K13), mRNA

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8414	22488	36053	0.99	1.0E-48	4502838	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
8468	22525	36089	6.79	1.0E-48	AB033071.1	NT	Homo sapiens mRNA for KIAA1245 protein, partial cds
9781	22821	36399	4.74	1.0E-48	BF304683.1	EST_HUMAN	601888096F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122110 5'
10581	23616	37221	4.23	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65), mRNA
10581	23616	37222	4.23	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65), mRNA
12282	26014		1.41	1.0E-48	W28785.1	EST_HUMAN	1546 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
2084	15204	28320	0.97	8.0E-49	AB026497.1	NT	Mus musculus MypDZ mRNA for myosin containing PDZ domain, complete cds
6178	19354	32701	3.07	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
6178	19354	32702	3.07	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
8491	21872	35109	3.09	8.0E-49	U23850.1	NT	Human insulin 1,4,5 trisphosphate receptor type 1 mRNA, partial cds
10194	23231	36822	0.93	8.0E-48	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
11096	24169	37804	3.65	8.0E-49	AI623722.1	EST_HUMAN	ts38a12.x1 NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2230871 3' similar to contains Alu repetitive element contains element PTR5 repetitive element ;
12097	25077	38785	2.08	8.0E-49	AA872183.1	EST_HUMAN	cb78a08.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1337462 3'
142	13602	26637	1.21	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA4) mRNA
142	13602	26638	1.21	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA4) mRNA
405	13602	26637	1.82	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA4) mRNA
405	13602	26638	1.82	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA4) mRNA
406	13602	26637	2.25	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA4) mRNA
406	13602	26638	2.25	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMCA4) mRNA
1248	14407	27489	4.37	7.0E-49	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21O084
4772	17907	30890	0.9	7.0E-48	O60811	SWISSPROT	HYPOTHETICAL PROTEIN DJB49024.3
5576	18771	31815	2.33	7.0E-49	AI807191.1	EST_HUMAN	wf25h04.x1 Scores_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:O54923
5586	18781	31826	1.3	7.0E-49	AL120937.1	EST_HUMAN	O54923 RSEC15 ;
5926	18771	31815	0.79	7.0E-49	AI807191.1	EST_HUMAN	DKFZp762C033_s1 762 (synonym: hmel2) Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:O54923
202	13425	28456	20.33	6.0E-49	AW731740.1	EST_HUMAN	wf25h04.x1 Scores_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:O54923
4231	17378	30367	0.64	6.0E-49	AL162081.1	EST_HUMAN	O54923 RSEC15 ;
5954	19140	32456	0.64	6.0E-49	AW511225.1	EST_HUMAN	ba55g05.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900504 3' similar to gb:X17203.40S
6572	19734	33113	1.27	6.0E-49	AU140742.1	EST_HUMAN	RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
							DKFZp761A138_s1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A138 3'
							hd44602.x1 Scores_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O86636
							O86636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II ;
							AU140742 PLAGE4 Homo sapiens cDNA clone PLACE4000148 5'

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11557	24612	35291	3.39	6.0E-49	AW452218.1	EST_HUMAN	UI-H-B13-alc-a-05-U1.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068048 3'
11961	24946	38650	2.48	8.0E-49	AA366556.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
11961	24946	38651	2.48	6.0E-49	AA366556.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
12670	25897		10.54	8.0E-49	AA707567.1	EST_HUMAN	zj26c08.s1 Soares fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:451694 3'
730	13912	26951	5.84	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
730	13912	26952	5.84	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1836	14983	28082	10.18	5.0E-49	AA172121.1	EST_HUMAN	z226c07.r1 Stralagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610860 5' similar to TR:G233226 G233226 RTVL-H PROTEIN, contains LTR7.3 LTR7 LTR7 repetitive element ;
2808	15922	28032	7.1	5.0E-49	U17714.1	NT	Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds
3346	16519	29533	7.59	5.0E-49	11436355	NT	Homo sapiens similar to ribosomal protein S27 (metalloproteinin 1) (H. sapiens) (LOC63362), mRNA
538	13731	26754	28.39	4.0E-49	AW189533.1	EST_HUMAN	xi08501.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2675593 3' similar to WP:R0350.2B CE06703 ;
7395	20473	33939	0.96	4.0E-49	Z26634.2	NT	Homo sapiens mRNA for ankryrin B (440 kDa)
7395	20473	33940	0.96	4.0E-49	Z26634.2	NT	Homo sapiens mRNA for ankryrin B (440 kDa)
7422	20499	33970	0.68	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA
7422	20499	33971	0.68	4.0E-49	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA
7992	21042	34554	0.69	4.0E-49	7622209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
9065	22144	35590	0.47	4.0E-49	11425374	NT	Homo sapiens copine III (CPNE3), mRNA
9065	22144	35591	0.47	4.0E-49	11425374	NT	Homo sapiens copine III (CPNE3), mRNA
12514	26145		2.74	4.0E-49	AA210796.1	EST_HUMAN	z90105.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:682677 5'
12815	25413		2.93	4.0E-49	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
574	13766	26789	0.91	3.0E-49	X68968.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
2713	15831		2.73	3.0E-49	AA016131.1	EST_HUMAN	z631c05.r1 Soares retina N2b-4-HR Homo sapiens cDNA clone IMAGE:360864 5' similar to contains L1.13 L1 repetitive element ;
5088	18226	31198	2.68	3.0E-49	U46989.1	NT	Human type IV collagen (COL4A6) gene, exon 40
7577	20649	34127	9.83	3.0E-49	H39479.1	EST_HUMAN	EST25612 WATM1 Homo sapiens cDNA clone 25612
11582	24638	38316	1.41	3.0E-49	AA337561.1	EST_HUMAN	EST42572 Endometrial tumor Homo sapiens cDNA 5' end
678	13864		1.83	2.0E-49	BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
3284	16468	29487	1.16	2.0E-49	N26446.1	EST_HUMAN	y232c06.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:262571 5'

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3659	18222	28832	0.86	2.0E-49	AF025584.1	NT	Homo sapiens RNA binding protein II (RBMII) gene, complete cds
6875	20027	33437	1.2	2.0E-49	AV717938.1	EST_HUMAN	AV717938 DCB Homo sapiens cDNA clone DCB81801 5'
8291	21373		1.87	2.0E-49	M86033.1	EST_HUMAN	EST02558 Fetal brain, Stragene (cat#39206) Homo sapiens cDNA clone HFBCY60
12628	28008		2.69	2.0E-49	AF103884.1	EST_HUMAN	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
922	14097		9.1	1.0E-49	BF035327.1	EST_HUMAN	601486631F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3862086 5'
1584	14736	27816	73.58	1.0E-49	4557687	NT	Homo sapiens keratin 18 (KRT18) mRNA
1844	14990	28091	2.63	1.0E-49	BE255216.1	EST_HUMAN	601115769F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356273 5'
5476	18674	31688	4.68	1.0E-49	BF131007.1	EST_HUMAN	601820053F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4052052 5'
6208	19377	32728	0.65	1.0E-49	H18291.1	EST_HUMAN	y148104.1 Soares adult brain N26.5HB55Y Homo sapiens cDNA clone IMAGE:117103 5' similar to SP-GBG1_HUMAN Q08447 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT ;
6208	19383	32733	1.09	1.0E-49	AW964840.1	EST_HUMAN	EST376713 MAGE resequences, MAGH Homo sapiens cDNA
7372	20451	33916	2.78	1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3820863 5'
7372	20451	33916	2.78	1.0E-49	BE368110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3820863 5'
7453	20530	34003	2.09	1.0E-49	N25884.1	EST_HUMAN	y178912.s1 Soares placenta, 8to6weeks, 2N6HP869W Homo sapiens cDNA clone IMAGE:258408 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7453	20530	34004	2.09	1.0E-49	N25884.1	EST_HUMAN	y178912.s1 Soares placenta, 8to6weeks, 2N6HP869W Homo sapiens cDNA clone IMAGE:258408 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
8874	21953		0.71	1.0E-49	9994184	NT	Homo sapiens RNA binding motif protein 7 (LOC51120). mRNA
9193	22271	35809	1.48	1.0E-49	BE409340.1	EST_HUMAN	601300922F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638398 5'
10331	23366	36975	1.23	1.0E-49	AL043129.2	EST_HUMAN	DKFZp434D2423.1 434 (synonym: htae3) Homo sapiens cDNA clone DKFZp434D2423 5'
11304	24369	38010	1.32	1.0E-49	AV751477.1	EST_HUMAN	AV751477 NPD Homo sapiens cDNA clone NPDAWEO4 5'
11590	24943	38325	2.91	1.0E-49	11427356	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12148	25119		1.26	1.0E-49	BE168343.1	EST_HUMAN	MFO-HT0407-010200-008-02 HT0407 Homo sapiens cDNA
12508	25349		1.82	1.0E-49	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
6108	18237		0.92	9.0E-50	AF101475.1	NT	Homo sapiens glycine N-methyltransferase (GNMT) gene, complete cds
6534	26215		0.63	9.0E-50	BE285758.1	EST_HUMAN	601176280F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531588 5'
174	13398	26426	4.18	8.0E-50	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
737	13919	26959	1.92	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
737	13919	26960	1.92	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
1803	14852	28048	4.32	8.0E-50	4501800	NT	Homo sapiens actinin, alpha 1 (ACTN1) mRNA
2552	15677	28800	1.05	8.0E-50	7706394	NT	Homo sapiens p47 (LOC51674), mRNA
2552	15677	28801	1.05	8.0E-50	7706394	NT	Homo sapiens p47 (LOC51674), mRNA
2764	15979	28988	2.42	8.0E-50	4826688	NT	Homo sapiens capping protein (capin filament) muscle Z-line, beta (CAPZB), mRNA
2891	15160		2.67	8.0E-50	D90334.1	NT	Homo sapiens hepatocyte growth factor(HGF) gene, exon 18

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634	13819	26843	1.07	7.0E-50	BE085931.1	EST_HUMAN	QV0-BT0703-280400-211-e08 BT0703 Homo sapiens cDNA
6923	20238	33672	0.73	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150600-011-A12 TN0073 Homo sapiens cDNA
6923	20238	33673	0.73	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
7457	20533	34008	0.74	7.0E-50	AA627822.1	EST_HUMAN	nc58e12.s1 NCL CGAP_C09 Homo sapiens cDNA clone IMAGE:1148206 3' similar to gb:X68391 60S
10993	24072	37705	23.18	7.0E-50	AI872137.1	EST_HUMAN	ribosomal protein L6 (HUMAN);
4452	17602		0.67	6.0E-50	BE794381.1	EST_HUMAN	wn55g11.x1 NCL CGAP_U12 Homo sapiens cDNA clone IMAGE:2439908 3'
8408	21489		3.28	6.0E-50	BE044076.1	EST_HUMAN	60198966F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
11033	24130	37765	3.32	6.0E-50	AA312079.1	EST_HUMAN	h336h04.x1 NCL CGAP_U11 Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29.b3
11033	24130	37766	3.32	6.0E-50	AA312079.1	EST_HUMAN	MER29 repetitive element;
1835	14982	28080	1.34	5.0E-50	BF332938.1	EST_HUMAN	EST182776 Jurkat T-cells VI Homo sapiens cDNA 5' end
1835	14982	28081	1.34	5.0E-50	BF332938.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
9294	22370		5.27	5.0E-50	AA557683.1	EST_HUMAN	GM0-BT0792-300500-398-b05 BT0792 Homo sapiens cDNA
12090	26070	38777	1.78	5.0E-50	AA403053.1	EST_HUMAN	nl45h10.e1 NCL CGAP_P14 Homo sapiens cDNA clone IMAGE:1043683 similar to contains PTR5.13 PTR5
940	14114		2.31	4.0E-50	AA601143.1	EST_HUMAN	repetitive element;
3536	16701	29712	2.06	4.0E-50	AL163248.2	NT	z62b01.f1 Soares_testis NHT Homo sapiens cDNA clone IMAGE:726889 5' similar to TR:G1335769
6481	19657	33020	0.92	4.0E-50	BE087536.1	EST_HUMAN	G1335769 GAG-POL POLYPEPTIDE;
7383	20451	33924	1.02	4.0E-50	BE087536.1	EST_HUMAN	nc54e09.s1 NCL CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X53741_ma1
1992	15134		9.4	3.0E-50	M18048.1	NT	FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
3371	16543	29557	0.92	3.0E-50	AA748142.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C048
3846	17006	30008	0.9	3.0E-50	AW755254.1	EST_HUMAN	Homo sapiens cysteine tRNA synthetase (CARS), mRNA
6815	19968	33375	0.89	3.0E-50	11419317	NT	QV1-BT0681-280300-127-f12 BT0681 Homo sapiens cDNA
6815	19968	33375	0.89	3.0E-50	11419317	NT	Human endogenous retrovirus RTVL-H2
6904	20219	33648	1.71	3.0E-50	11421514	NT	qb03006.s1 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1328827 3'
7822	20877	34376	5	3.0E-50	AF234362	NT	GMVA5 Human cardiac muscle expression library/Homo sapiens cDNA clone 4151935 similar to GMVA5
7822	20877	34377	5	3.0E-50	AF234362	NT	Cardiomyopathy associated gene 5
							Homo sapiens protein tyrosine phosphatase, non-receptor type 12 (PTPN12), mRNA
							Homo sapiens protein tyrosine phosphatase, non-receptor type 12 (PTPN12), mRNA
							Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted,
							(semaphorin 3A (H. sapiens) (LOC83232), mRNA
							Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete
							cds
							Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete
							cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8782	21861	35404	0.66	3.0E-50	8601589	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
10023	23061	36657	1.08	3.0E-50	AB046618.1	NT	Homo sapiens mRNA for KIAA1593 protein, partial cds
10032	23070	36670	1.03	3.0E-50	11418514	NT	Homo sapiens l-complex 10 (a murine lcp homolog) (TCP10), mRNA
10737	23770	37380	1.04	3.0E-50	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11384	24425	38080	1.51	3.0E-50	11436955	NT	Homo sapiens Grib2-associated binder 2 (KIAA0571), mRNA
11752	23838	37684	8.19	3.0E-50	AJ245621.1	NT	Homo sapiens C7L2 gene
13217	25782	31822	1.35	3.0E-50	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
789	13978		7.94	2.0E-50	AF055036.1	NT	Homo sapiens MHC class 1 region
1104	14269	27327	6.18	2.0E-50	4557752	NT	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1) mRNA
1474	14827	27713	33.77	2.0E-50	AF138303.1	NT	Homo sapiens decorin D mRNA, complete cds, alternatively spliced
4376	17519	30499	0.75	2.0E-50	D88424.1	NT	Mus musculus mRNA for high-sulfur keratin protein, partial cds
5329	18442	31412	1.37	2.0E-50	AB018319.1	NT	Homo sapiens mRNA for KIAA0776 protein, partial cds
7007	20143	33562	0.61	2.0E-50	AU124065.1	EST_HUMAN	AU124065 NT2RM2 Homo sapiens cDNA clone NT2RM2001609 5'
8511	21592	35126	1.03	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8511	21592	35127	1.03	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8650	21730	35288	7.21	2.0E-50	X06995.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
8650	21730	35269	7.21	2.0E-50	X06995.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
10088	23126	36728	1.6	2.0E-50	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
10088	23126	36729	1.6	2.0E-50	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11060	24945		1.39	2.0E-50	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
474	13089	26701	2.17	1.0E-50	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2438	15568		10.11	1.0E-50	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
10396	23431	37038	1.65	1.0E-50	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
6104	19284	32617	1.04	9.0E-51	AW511225.1	EST_HUMAN	hd44e02 x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O95636
6354	19524	32881	0.58	9.0E-51	AA744837.1	EST_HUMAN	O95636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.;
8872	21951	35487	0.7	9.0E-51	AJ791154.1	EST_HUMAN	ab23g04.x5 Stratiagene lung (#837210) Homo sapiens cDNA clone IMAGE:841686 3' similar to
9525	22590	36161	1.29	9.0E-51	AA043738.1	EST_HUMAN	SW:PSM_HUMAN Q04809 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;
							zks1c09.r1 Soares_pregnant_uterus NBHPU Homo sapiens cDNA clone IMAGE:468352 5'
9700	22749	36317	0.88	9.0E-51	AJ791154.1	EST_HUMAN	ab23g04.x5 Stratiagene lung (#837210) Homo sapiens cDNA clone IMAGE:841686 3' similar to
							SW:PSM_HUMAN Q04809 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;
9700	22749	36318	0.58	9.0E-51	AJ791154.1	EST_HUMAN	ab23g04.x5 Stratiagene lung (#837210) Homo sapiens cDNA clone IMAGE:841686 3' similar to
							SW:PSM_HUMAN Q04809 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;
11764	23950	37679	1.97	9.0E-51	H89078.1	EST_HUMAN	YW24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:263210 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11784	23950	37580	1.97	9.0E-51	H89078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
12059	25050	38758	1.84	9.0E-51	AA885514.1	EST_HUMAN	am10j02.s1 Soares_NFL_T GEC_S1 Homo sapiens cDNA clone IMAGE:1466451 3' similar to
4339	17697	30677	1.11	8.0E-51	4503932	NT	SW-CAYP_CANFA P10463 CALCTYPHOSINE ;
4559	17697	30678	1.11	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4690	17825	30812	5.38	8.0E-51	AA610842.1	EST_HUMAN	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
7321	20403	33665	0.71	8.0E-51	AF064254.1	NT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
7830	20885	34387	2.11	8.0E-51	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NT-CO-38), mRNA
9694	22928	29541	1.06	8.0E-51	AU138590.1	EST_HUMAN	AU138590 PLACE1 Homo sapiens cDNA clone PLACE1008887 5'
3354	18528	29541	1.27	7.0E-51	AW889219.1	EST_HUMAN	QV4-NT0028-200400-180-405 NT0028 Homo sapiens cDNA
3447	16815	29633	0.82	7.0E-51	AW274720.1	EST_HUMAN	xn34e03.x1 NCL CGAP Kid11 Homo sapiens cDNA clone IMAGE:2695564 3' similar to TR:Q9Z340
4282	17427	30416	1.37	7.0E-51	AL079628.1	EST_HUMAN	Q9Z340 ATYPICAL PKC SPECIFIC BINDING PROTEIN ;
4282	17427	30417	1.37	7.0E-51	AL079628.1	EST_HUMAN	DKFZp434B2229_J1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5'
4376	17618	30498	1.18	7.0E-51	11421595	NT	DKFZp434B2229_J1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5'
4471	17611	30589	1.44	7.0E-51	AW205803.1	EST_HUMAN	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3), mRNA
11985	24970	38674	1.36	7.0E-51	AF161449.1	NT	U1-H-BWP- α -p-05-D-U1 st NCL CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729817 3'
1557	14710	27790	0.94	6.0E-51	6678763	NT	Homo sapiens HSPC331 mRNA, partial cds
2036	15177	28287	5.93	6.0E-51	7657266	NT	Homo sapiens putative DNA binding protein (M96), mRNA
3562	16727	29743	14.65	6.0E-51	7657266	NT	Homo sapiens KIAA0929 protein Mex2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
4426	17596	30547	0.66	6.0E-51	9910553	NT	Homo sapiens KIAA0929 protein Mex2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
4426	17596	30548	0.66	6.0E-51	9910553	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
6113	19283	32628	1.48	6.0E-51	X01788.1	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
6124	19303	32642	8.16	6.0E-51	AF070083.1	NT	Human hemoglobin related (Hpr) gene exon 3
6124	19303	32643	8.16	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
6900	20216	33645	0.93	6.0E-51	4506736	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
7032	20169	33660	0.82	6.0E-51	11416751	NT	Homo sapiens ribosomal protein S6 kinase, 70SD, polypeptide 1 (RPS6B1) mRNA
7104	16531	31486	2.15	6.0E-51	11420665	NT	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC56890), mRNA
8337	22473	35965	0.69	6.0E-51	11426525	NT	Homo sapiens cerebral cell adhesion molecule (LOC51148), mRNA
9337	22473	35966	0.69	6.0E-51	11426525	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
9885	22925	35609	2.05	6.0E-51	7681535	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9964	23003	36598	0.79	6.0E-51	U50093.1	NT	Human ankyrin (ANK1) gene, exon 2
11534	24590	38265	1.84	6.0E-51	11528288	NT	Homo sapiens interleukin 17 receptor (IL17R), mRNA
814	13983	27047	6.22	5.0E-51	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
826	14004	27061	1.71	5.0E-51	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1015	16028	27247	2.39	5.0E-51	AL133204.1	NT	Novel human gene mapping to chromosome X
1638	14790	27875	1.14	5.0E-51	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2658	15781	28894	10.36	5.0E-51	AJ007568.1	NT	Homo sapiens mRNA for nucleoporin 155
4055	17211	30221	1.31	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4055	17211	30222	1.31	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
5183	18305	31289	1.04	5.0E-51	AB037632.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
11558	24813	38292	3.8	5.0E-51	5803136	NT	Homo sapiens RNA binding motif protein 3 (RBM3), mRNA
137	13363	26397	14.26	3.0E-51	AI587348.1	EST_HUMAN	1f81c09.x1 NCI CGAP_Pant1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M26326
1203	14365	27425	48.14	3.0E-51	AI587348.1	EST_HUMAN	KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
1976	15119	28220	1.38	3.0E-51	AA211296.1	EST_HUMAN	1f81c09.x1 NCI CGAP_Pant1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M26326
4446	17586	30567	1.85	3.0E-51	AL160142.1	NT	zq87g01.a1 Striatogene HNT neuron (#937293) Homo sapiens cDNA clone IMAGE:649008 3'
						NT	Novel human gene mapping to chromosome 22
7753	20813	34304	2.3	3.0E-51	R15814.1	EST_HUMAN	ye47c08.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:53233 5' similar to gb:M14123_cds4
9040	22119		3.85	3.0E-51	M29063.1	NT	RETROVIRUS-RELATED POLYPROTEIN (HUMAN); contains LTR5 repetitive element;
9268	26227		0.61	3.0E-51	AW583777.1	EST_HUMAN	Human hnRNP C2 protein mRNA
12867	25578		6.66	3.0E-51	AF003528.1	NT	iso4d06.y1 Human Pancreatic Islets Homo sapiens cDNA 5'
						NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
377	13585	26619	1.98	2.0E-51	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
706	13889	26921	0.89	2.0E-51	BE391063.1	EST_HUMAN	601285694F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607463 5'
706	13889	26922	0.89	2.0E-51	BE391063.1	EST_HUMAN	601285694F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607463 5'
1723	14873	27665	16.76	2.0E-51	AA233352.1	EST_HUMAN	zr30a05.r1 Striatogene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:684880 5' similar to TR:G233226 G233226 RTV-LH PROTEIN; contains LTR7 LTR7 repetitive element;
3827	16987	29890	3.05	2.0E-51	AI492415.1	EST_HUMAN	to TR:G233226 G233226 RTV-LH PROTEIN; contains LTR7 LTR7 repetitive element;
4616	17753	30734	1.21	2.0E-51	AW137826.1	EST_HUMAN	1027g03.x1 NCI CGAP_Kid1 Homo sapiens cDNA clone IMAGE:2131732 3'
						EST_HUMAN	UI-H-B11-adj-d-02-0-U1.e1 NCI CGAP_S103 Homo sapiens cDNA clone IMAGE:2716851 3'
5326	18439	31408	0.66	2.0E-51	AI381520.1	EST_HUMAN	1a76c08.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2092822 3' similar to TR:P63107
						EST_HUMAN	P63107 PF20;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6139	19317	32658	3.54	2.0E-51	BE782015.1	EST_HUMAN	601470446F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3873563 5'
7462	20537		0.73	2.0E-51	AF219927.1	NT	Homo sapiens diacylglycerol kinase α (DGK) gene, exon 23
7615	20885	34161	1.26	2.0E-51	7682349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0888), mRNA
8896	21975	35512	1.61	2.0E-51	BE901994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3939613 5'
8896	21975	35513	1.61	2.0E-51	BE801994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3939613 5'
9235	22312	35854	1.03	2.0E-51	11037064	NT	Homo sapiens disrupted in schizophrenia 1 (DISC1), mRNA
9712	22777	36347	1.76	2.0E-51	AI917078.1	EST_HUMAN	ts74a07.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2236980 3' similar to SW:TRKC_HUMAN
9803	22843	36420	4.86	2.0E-51	BE165680.1	EST_HUMAN	Q16288 NT-3 GROWTH FACTOR RECEPTOR PRECURSOR ;
9818	22858	36438	0.69	2.0E-51	AB007928.1	NT	MF3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
10848	23682	37283	1.58	2.0E-51	AV682474.1	EST_HUMAN	Homo sapiens mRNA for KIAA0457 protein, partial cds
10890	23723	37329	1.07	2.0E-51	AA378559.1	EST_HUMAN	AV682474 GKB Homo sapiens cDNA clone GKBAGF05 5'
11610	18752	31789	5.82	2.0E-51	AI732851.1	EST_HUMAN	EST191296 Synovial sarcoma Homo sapiens cDNA 5' end
11610	18752	31790	5.82	2.0E-51	AI732851.1	EST_HUMAN	0334709.x5 NCL_CGAP_Kd5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
12890	25371	31892	1.62	2.0E-51	11419156	NT	P33436 GLUTAMATE [NM2A] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
117	13348	26375	10.94	1.0E-51	4503528	EST_HUMAN	0334709.x5 NCL_CGAP_Kd5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
1523	14676		37.16	1.0E-51	AV742248.1	EST_HUMAN	P33436 GLUTAMATE [NM2A] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
4918	18048	31036	0.82	1.0E-51	AF111168.2	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q23) translocation) (MLL14), mRNA
5505	18704	31720	3.7	1.0E-51	T18862.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA
7827	20882	34384	1.03	1.0E-51	AI572532.1	EST_HUMAN	AV742248 OB Homo sapiens cDNA clone CBFBCG12 5'
8087	21169	34684	0.51	1.0E-51	BF434359.1	EST_HUMAN	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes
12078	26232		1.87	1.0E-51	AV760590.1	EST_HUMAN	b12056T Testis 1 Homo sapiens cDNA clone b12056
12610	25409		9.43	9.0E-52	AA777621.1	EST_HUMAN	tc39g02.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:2089106 3'
156	13881	26412	11.42	8.0E-52	AA720574.1	EST_HUMAN	7066002.x1 NCL_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3644091 3' similar to TR:P87892 P87892
1526	14879	27760	2.39	8.0E-52	X34690.1	NT	PROTEASE ;
1686	14838	27922	2.85	8.0E-52	11968028	NT	AV760590 MDS Homo sapiens cDNA clone MDS08B02 5'
							z65a07.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to
							contains THR3 THR repetitive element ;
							mw21g02.s1 NCL_CGAP_G080 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR3
							THR repetitive element ;
							H. sapiens mRNA for laminin-5, alpha3b chain
							Homo sapiens hypothetical protein FLJ13555 similar to N-myc downstream regulated 3 (FLJ13555), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1886	14838	27923	2.85	8.0E-52	11988028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
4101	14838	27922	6.75	8.0E-52	11988028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
4101	14838	27923	6.75	8.0E-52	11988028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
7886	20751	34232	0.76	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
7886	20751	34233	0.76	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
9215	22293	35836	1.86	7.0E-52	W56471.1	EST_HUMAN	z559e06.r1 Soares.parathyroid_tumor_NbHPA Homo sapiens cDNA IMAGE:326578 5' similar to contains Alu repetitive element;
1214	14375		0.63	6.0E-52	BE072408.1	EST_HUMAN	QV3-BT0537-271299-049-d07 BT0537 Homo sapiens cDNA
1729	14879	27970	7.1	6.0E-52	AF109807.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
5845	18035	32341	1.05	6.0E-52	AI208784.1	EST_HUMAN	q64f04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838047 3'
11484	24543	38214	2.36	6.0E-52	BE048172.1	EST_HUMAN	tz46f04.y1 NCI_CGAP_Bms2 Homo sapiens cDNA clone IMAGE:2291671 5' similar to SW:PGBM_MOUSE Q05763 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE
4532	17700	30682	2.27	5.0E-52	Z78898.1	NT	PROTEOGLYCAN CORE PROTEIN PRECURSOR:
9302	22847	36218	0.48	5.0E-52	11437365	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC5pA18H7
1895	14847	27931	1.86	4.0E-52	AF257318.1	NT	Homo sapiens FSHD region gene 1 (FRG1), mRNA
1828	14977	28072	1.63	4.0E-52	47598343	NT	Homo sapiens SH3-containing protein SH3GLB1 mRNA, complete cds
4037	17193	30203	0.77	4.0E-52	4507500	NT	Homo sapiens nucleoporin 160kD (NUP155) mRNA
4832	17895	30980	0.81	4.0E-52	AI766814.1	EST_HUMAN	Homo sapiens I-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5401	18303	31574	1.3	4.0E-52	4506132	NT	w89b02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400459 3'
5401	18303	31575	1.3	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
8228	21310	34830	1.19	4.0E-52	BE622032.1	EST_HUMAN	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
8731	21811	35347	5.5	4.0E-52	11417035	NT	801440687F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918836 5'
12429	25804		3.44	4.0E-52	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12887	25842		12.79	4.0E-52	AB002059.1	NT	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4), mRNA
13141	25741		1.3	4.0E-52	AB011339.1	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
4204	17353		11.41	3.0E-52	11437042	NT	Homo sapiens gene for AF-6, complete cds
676	13768	26780	1.82	2.0E-52	M10976.1	NT	Homo sapiens hypothetical protein FLJ10675 (FLJ10675), mRNA
676	13768	26781	1.82	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
2071	15211	28328	1.18	2.0E-52	AB033075.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
							Homo sapiens mRNA for KIAA1249 protein, partial cds

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2598	15993	28818	1.5	2.0E-52	BE207575.1	EST_HUMAN	bb66b07.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030421 5' similar to gb:X16493 M.musculus mRNA for Zp1-1 zinc finger protein (MOUSE);
2796	15911		11.46	2.0E-52	BF677892.1	EST_HUMAN	602084710F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248891 5'
5092	18220	31190	3.41	2.0E-52	AL197188.3	NT	Novel human gene mapping to chromosome 20, similar to membrane transporters
5126	18251	31218	1.4	2.0E-52	AI141802.1	EST_HUMAN	qa56a05.s1 Soares_NHMPU_S1 Homo sapiens cDNA clone IMAGE:1890784 3'
5126	18251	31217	1.4	2.0E-52	AI141802.1	EST_HUMAN	qa56a05.s1 Soares_NHMPU_S1 Homo sapiens cDNA clone IMAGE:1890784 3'
5821	19011	32317	3.24	2.0E-52	AW848041.1	EST_HUMAN	IL3-CT0214-231299-053-E12 CT0214 Homo sapiens cDNA
6497	19693	33028	1.98	2.0E-52	11141868	NT	Homo sapiens interleukin 21 receptor (IL21R), mRNA
6853	20006	33415	0.96	2.0E-52	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
7081	20175	33597	0.76	2.0E-52	AI792146.1	EST_HUMAN	os45d12.y5 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1608311 5'
7996	21045	34558	0.69	2.0E-52	5032158	NT	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
7996	21046	34559	0.69	2.0E-52	5032158	NT	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
8854	21833		8.71	2.0E-52	AF147880.1	NT	Macaca mulatta beta-tubulin mRNA, complete cds
9136	22215	35759	0.96	2.0E-52	AA778765.1	EST_HUMAN	z45g05.s1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:4593272 3'
9680	22842		1	2.0E-52	4758789	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFS5) mRNA
10321	23356	36965	4.6	2.0E-52	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10321	23356	36968	4.6	2.0E-52	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
11481	24540	38209	3.14	2.0E-52	AI831482.1	EST_HUMAN	w49c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element;
11481	24540	38210	3.14	2.0E-52	AI831482.1	EST_HUMAN	w49c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element;
11481	24550	38225	2.52	2.0E-52	AV715377.1	EST_HUMAN	AV715377 DC8 Homo sapiens cDNA clone DC8AIE03 5'
11634	24714		1.46	2.0E-52	W70260.1	EST_HUMAN	z45g12.1 Soares_fetal_liver_Nb-H19W Homo sapiens cDNA clone IMAGE:344038 5'
11918	24804		3.25	2.0E-52	11417990	NT	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA
12234	26194	31541	5.9	2.0E-52	AW236297.1	EST_HUMAN	xn72e07.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2700036 3' similar to contains Alu repetitive element; contains element LTR2 repetitive element;
12658	25437		5.72	2.0E-52	AI809985.1	EST_HUMAN	wf67d05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360949 3' similar to TR-Q16859 Q16859 CARBOXYLESTERASE;
546	13739	26784	1.89	1.0E-52	AA634445.1	EST_HUMAN	zu75h12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743879 3'
1402	14556	27630	18.78	1.0E-52	4504026	NT	Homo sapiens glutamate-aminonla ligase (glutamine synthase) (GLUL) mRNA
2600	15724		1.86	1.0E-52	4502238	NT	Homo sapiens arylsulfatase D (ARSD), transcript variant 1, mRNA
3126	16302	29316	2.6	1.0E-52	S61070.1	NT	ppd=reverse transcriptase homolog (retroviral element) [human, endogenous retroviral element RTVL-Hp1, Genomic, 680 nt]

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5448	18648	31026	4.43	1.0E-52	M29426.1	NT	Human P-glycoprotein (MDR1) gene, exon 4
6623	18688	33062	2.33	1.0E-52	U38964.1	NT	Human PMS2 related (HPMSR2) gene, complete cds
7588	20659	34135	2.07	1.0E-52	X07262.1	NT	Human aldolase C gene for fructose-1,6-bisphosphate aldolase
8014	21064	34576	0.59	1.0E-52	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nail) and survival motor neuron protein (smn) genes, complete cds
8660	21740		1.18	1.0E-52	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
9390	22455	36029	0.77	1.0E-52	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10804	23837		0.68	1.0E-52	AW020370.1	EST_HUMAN	d08g05.v1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483145 6'
10814	23847		1.08	1.0E-52	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
11004	24093	37720	2.12	1.0E-52	U48286.1	NT	Homo sapiens protein tyrosine phosphatase PTPCAAX1 (PTPCAAX1) mRNA, complete cds
11075	24150		1.72	1.0E-52	11426321	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 2 (PSMB2), mRNA
12135	25115	38816	1.31	1.0E-52	11421401	NT	Homo sapiens 5'-3' exoribonuclease 2 (XRN2), mRNA
12135	25115	38820	1.31	1.0E-52	11421401	NT	Homo sapiens 5'-3' exoribonuclease 2 (XRN2), mRNA
3891	17050	30049	0.69	9.0E-53	4508094	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) mRNA
4511	17650	30638	3.3	9.0E-53	AF001446.1	NT	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3
12480	26332		6.65	7.0E-53	BF238463.1	EST_HUMAN	601904771F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4132793 5'
12958	26046		7.06	7.0E-53	AI421782.1	EST_HUMAN	1f44107.x1 NCL_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2069077 3' similar to contains THR.11 THR repetitive element;
4214	17363	30361	4.48	5.0E-53	4768543	NT	Homo sapiens heterogenous nuclear ribonucleoprotein C (C1022) (HNRPC) mRNA
5293	18411	31377	0.82	5.0E-53	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
12528	25360		1.93	5.0E-53	AW1813563.1	EST_HUMAN	RC3-ST0197-161009-011-g10 ST0197 Homo sapiens cDNA
50	13286	26301	2.07	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
50	13286	26302	2.07	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
9616	22671		0.67	4.0E-53	AI613037.1	EST_HUMAN	Y06H04.x1 NCL_CGAP_U03 Homo sapiens cDNA clone IMAGE:2278327 3'
8958	22697		0.94	4.0E-53	F13080.1	EST_HUMAN	HSC3D041 normalized infant brain cDNA Homo sapiens cDNA clone c-3id04
11488	24548	38221	2.99	4.0E-53	BF128701.1	EST_HUMAN	601810689F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
11489	24548	38222	2.99	4.0E-53	BF128701.1	EST_HUMAN	601810689F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
2726	15844	28666	2.34	3.0E-53	AB026998.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL4 genes, complete cds)
3825	16955	28988	1.18	3.0E-53	AW060836.1	EST_HUMAN	wz22c07.x1 Soares Dieckgreffe cdon NHCO Homo sapiens cDNA clone IMAGE:2558786 3'
4713	17848	30831	0.75	3.0E-53	AW1803563.1	EST_HUMAN	IL2JM0081-240300-055-D03 JM0081 Homo sapiens cDNA
5541	18738	31755	0.97	3.0E-53	AF001212.1	NT	Homo sapiens 26S proteasome subunit 9 mRNA, complete cds
5743	18836	32236	1.01	3.0E-53	11526297	NT	Homo sapiens MIL1 protein (MIL1), mRNA
6323	19495	32851	1.46	3.0E-53	BE160025.1	EST_HUMAN	QV1-HT0412-280300-123-c04 HT0412 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7247	20330	33776	0.76	3.0E-53	Y10388.3	NT	H.sapiens graf gene
7247	20330	33777	0.76	3.0E-53	Y10388.3	NT	H.sapiens graf gene
8499	21580	35118	10.97	3.0E-53	S72043.1	NT	GLF-growth inhibitory factor [human, brain, Genomic, 2015 nt]
9060	22139	35683	0.85	3.0E-53	10835090	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
9257	22334		9.77	3.0E-53	5901953	NT	Homo sapiens FGF1 oncogene partner (FOP), mRNA
12861	25259		1.18	3.0E-53	11426423	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
470	13695		11.25	2.0E-53	AA386586.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
2068	15209	28325	3.29	2.0E-53	7705394	NT	Homo sapiens hyaluronate receptor (HAR), mRNA
2404	15535	28662	6.26	2.0E-53	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2801	15725		12.58	2.0E-53	4502315	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31kD, Vacuolar proton-ATPase, subunit E, V-ATPase, subunit E (ATP6E), mRNA
3260	16464	29483	0.79	2.0E-53	7705687	NT	Homo sapiens leucine aminopeptidase (LOC51056), mRNA
3817	16460	29508	1.29	2.0E-53	AF03822.1	NT	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 6
4170	17320	30313	2.59	2.0E-53	MB1873.1	NT	Human Krueppel-related DNA-binding protein (TF34) gene, partial cds
5542	18739	31768	2.46	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA
5542	18739	31757	2.46	2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA
8055	21138	34658	1.01	2.0E-53	AW976598.1	EST_HUMAN	EST387707 MAGE resequences, MAGN Homo sapiens cDNA
8198	21278		0.48	2.0E-53	AA098682.1	EST_HUMAN	15429 seq. F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
9008	22663		3.47	2.0E-53	AW246676.1	EST_HUMAN	2822665.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822665 5'
10862	23895	37517	0.89	2.0E-53	BE550185.1	EST_HUMAN	7650502.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231627 3' similar to TR:Q04009 Q04009 MYOSIN HEAVY CHAIN.1
1477	14630	27715	2.2	1.0E-53	AJ271738.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
3496	18663	28675	2.99	1.0E-53	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
5078	18206	31178	1.06	1.0E-53	BE296386.1	EST_HUMAN	601176725F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531919 5'
6831	19984	33392	1.5	1.0E-53	BF364201.1	EST_HUMAN	CM4-NN1029-150800-543-e02 NN1029 Homo sapiens cDNA
7397	20475	33942	0.87	1.0E-53	BE012071.1	EST_HUMAN	RC5-BN1058-270400-031-D01 BN1058 Homo sapiens cDNA
8120	21202	34723	0.6	1.0E-53	AA249072.1	EST_HUMAN	19571.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
9260	22666	35915	4.73	1.0E-53	X79536.1	NT	H.sapiens mRNA for hnRNPcore protein A1
12228	25178	38346	1.47	1.0E-53	AW245422.1	EST_HUMAN	2822943.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822943 3'
3324	16497	29515	0.61	9.0E-54	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5417	25803	31593	5.86	9.0E-54	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
212	13435	26465	1.20	8.0E-54	BE386785.1	EST_HUMAN	601272863F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614031 5'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1882	15026	28133	2.08	8.0E-54	4504610	NT	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA
6057	19239	32564	23.39	8.0E-54	6005700	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
395	13632	26669	1.35	7.0E-54	AA812537.1	EST_HUMAN	ai79c12.s1 Soares_testis_NHT Homo sapiens cDNA clone 1377048 3' similar to contains MER30.13 MER30 repetitive element;
1877	15021	28128	2.23	7.0E-54	Y16645.1	NT	Homo sapiens mRNA for monocyte chemotactic protein-2
2278	15410	28541	7.63	7.0E-54	N27177.1	EST_HUMAN	yw68d12.s1 Soares_placenta_8t6dweeks_2NbHP8t6w Homo sapiens cDNA clone IMAGE:257399 3' similar to contains LTR7.b3 LTR7 repetitive element;
10333	23368	36978	2.1	7.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA
11365	24426	35081	1.4	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11365	24426	35082	1.4	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11370	24825		3.42	7.0E-54	AI180189.1	EST_HUMAN	qb67c03.x1 Soares_fetal_heart_NbH-H19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains ORF.t1 OFR repetitive element;
25	13263	26265	0.84	6.0E-54	AB003618.1	NT	Homo sapiens DNA for MIOB, exon 4, 5 and partial cds
396	13533	26670	0.77	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
396	13533	26671	0.77	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3355	19527	26542	0.72	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
4111	17266	30266	22.75	6.0E-54	4502872	NT	Homo sapiens chloride channel 6 (CLCN6), mRNA
4564	17721	30704	1.09	6.0E-54	AV754748.1	EST_HUMAN	AV754746 TP Homo sapiens cDNA clone TPAAC10 5'
4968	18087	31073	2.15	6.0E-54	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA), mRNA
4966	18125		2.04	6.0E-54	Y08846.1	NT	H. sapiens shc pseudogene, p65 isoform
5115	18125		3.31	6.0E-54	Y08846.1	NT	H. sapiens shc pseudogene, p65 isoform
11741	23927	37552	1.52	6.0E-54	AW813567.1	EST_HUMAN	RC3-ST0197-151089-011-008 ST0187 Homo sapiens cDNA
2218	13552	28483	1.94	5.0E-54	P51523	SWISSPROT	ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPF2)
187	13409		58.19	4.0E-54	AF110103.1	NT	Tupala belangeri beta-actin mRNA, partial cds
978	14151	27211	14.58	4.0E-54	AA308764.1	EST_HUMAN	EST177696 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldehyde-3-phosphate dehydrogenase
1848	14994	28096	3.26	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
1848	14994	28097	3.26	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
3274	16448		1.85	4.0E-54	AJ935086.1	EST_HUMAN	wd26d11.x1 Soares_NFL.T.GBC.S1 Homo sapiens cDNA clone IMAGE:2329269 3' similar to TR:O02711 O02711 PRO-POL-DUTPASE POLYPROTEIN;
96	13331	26358	8.12	3.0E-54	AA313487.1	EST_HUMAN	EST165371 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
1604	14757		0.96	3.0E-54	AW515742.1	EST_HUMAN	hc87g08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2916542 3'
2635	15758	28872	1.19	3.0E-54	AL110363.1	EST_HUMAN	DKFZp434E0731_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E0731 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6024	19207	32527	1.36	3.0E-54	4802434	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX) mRNA
7548	20620	34096	1.34	3.0E-54	AA844081.1	EST_HUMAN	ai92c08.st Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'
7548	20620	34097	1.34	3.0E-54	AA844081.1	EST_HUMAN	ai92c08.st Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'
11277	24344		1.77	3.0E-54	11434806	NT	Homo sapiens golgi autotransfer, golgi subfamily a, 5 (GOLGA5), mRNA
11341	24404	38053	4.01	3.0E-54	BF345600.1	EST_HUMAN	602019409F1 NCI CGAP Brn67 Homo sapiens cDNA clone IMAGE:4155121 5'
11650	24728	38421	2.86	3.0E-54	AA393392.1	EST_HUMAN	z170f12.11 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:72727 5' similar to TR:G191315
12336	26243	32110	1.32	3.0E-54	AW054559.1	EST_HUMAN	G181315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN ;
12379	26149		3.16	3.0E-54	AW748965.1	EST_HUMAN	EST366828 IMAGE resequencing, MAGC Homo sapiens cDNA
659	13845	26871	17.67	2.0E-54	5031900	NT	RC1-BT0313-131199-011-509 BT0313 Homo sapiens cDNA
1396	14550	27625	1.54	2.0E-54	4507164	NT	Homo sapiens killer cell lectin-like receptor subfamily G, member 1 (KLRG1), mRNA
2604	15727	28846	1.25	2.0E-54	AW163176.1	EST_HUMAN	Homo sapiens nuclear antigen Sp100 (SP100) mRNA
2666	15787	28903	2.25	2.0E-54	AL183210.2	NT	ai92q03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783764 5' similar to SW:CU11_HUMAN Q13618 CULLIN HOMOLOG 1 ;
2960	16137	29155	1.95	2.0E-54	AW057524.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
3392	16862	29577	0.8	2.0E-54	AJ278314.1	NT	wy60b12.x1 Soares_NSF_F8_9W_OT_PA_P_ST Homo sapiens cDNA clone IMAGE:2552927 3' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING ;
3698	16802		6.1	2.0E-54	AA532925.1	EST_HUMAN	Homo sapiens mRNA for phospholipase C-beta-1b (PLOCB1 gene)
4321	17464		1.74	2.0E-54	4502842	NT	ri45g09.st NCI CGAP_F8 Homo sapiens cDNA clone IMAGE:995488 similar to gb:X53777 60S
4563	17701		7.1	2.0E-54	AF208161.1	NT	RIBOSOMAL PROTEIN L23 (HUMAN);
5591	18786	31833	2.66	2.0E-54	4759069	NT	Homo sapiens chaparotin containing T-complex subunit 6 (OCT6) mRNA
5720	18913	32209	1.21	2.0E-54	BE047684.1	EST_HUMAN	Homo sapiens synovial precursor, mRNA, complete cds
5882	19071	32379	3.99	2.0E-54	11426857	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 14 (SCYA14) mRNA
5982	19167	32487	11.29	2.0E-54	AB046811.1	NT	tz43c11.y1 NCI CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2291348 5'
5982	19167	32488	11.29	2.0E-54	AB046811.1	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
6786	19951	33351	1.63	2.0E-54	AF008915.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6950	20263	33701	0.68	2.0E-54	AB023212.1	NT	Homo sapiens EV18 homolog mRNA, complete cds
6950	20263	33702	0.68	2.0E-54	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
7273	20356	33810	8.33	2.0E-54	11426544	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1), mRNA
9828	22869	36451	3.96	2.0E-54	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
10213	23249	36838	1.14	2.0E-54	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10326	23361	36971	0.76	2.0E-54	11416762	NT	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10928	23361	36972	0.76	2.0E-54	11416762	NT	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA
10841	23874	37494	0.46	2.0E-54	AB007831.1	NT	Homo sapiens mRNA for KIAA0462 protein, partial cds
11276	19851	33351	1.46	2.0E-54	AF008915.1	NT	Homo sapiens EVI6 homolog mRNA, complete cds
12027	25011		1.72	2.0E-54	7657454	NT	Homo sapiens pscadillo (zebratish) homolog 1, containing BRCT domain (PES1), mRNA
12693	25591	31970	4.36	2.0E-54	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
4897	17724		1.95	1.0E-54	BF316418.1	EST_HUMAN	601899230F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128535 5'
8927	22006	35546	0.5	1.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA
10459	23494	37105	0.52	1.0E-54	AA412409.1	EST_HUMAN	zu10609.t1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
10459	23494	37108	0.52	1.0E-54	AA412408.1	EST_HUMAN	zu10609.t1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:731464 5'
13086	25709		2.33	1.0E-54	AU077341.1	EST_HUMAN	AU077341 Sugano cDNA library Homo sapiens cDNA clone Zv6C880 similar to 5'-end region of Human gamma-glutamyl transpeptidase mRNA, 5 end
10568	23603	37208	1.02	9.0E-55	BE081469.1	EST_HUMAN	QV2-BT0635-160400-143-112 BT0635 Homo sapiens cDNA
1344	14500		1.59	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1348	14503		2.77	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
11471	24530		1.83	8.0E-55	AW409714.1	EST_HUMAN	fh02a02.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2060907 5'
9004	22083		0.48	7.0E-55	AW103839.1	EST_HUMAN	xd76c02.x1 Scores_NFL_T_GEC_S1 Homo sapiens cDNA clone IMAGE:2803522 3' similar to TR:060365
9363	22456	36021	1.28	7.0E-55	AA895581.1	EST_HUMAN	al28a11.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1407260 3'
9416	22490	36055	1.71	7.0E-55	AU139909.1	EST_HUMAN	AU139909 PLACE1 Homo sapiens cDNA clone PLACE1011576 5'
11486	24544	38215	8.08	7.0E-55	AI561056.1	EST_HUMAN	tg29f09.x1 NCI CGAP_UHT Homo sapiens cDNA clone IMAGE:2210249 3'
11485	24544	38216	8.08	7.0E-55	AI561056.1	EST_HUMAN	tg29f09.x1 NCI CGAP_UHT Homo sapiens cDNA clone IMAGE:2210249 3'
12726	25911	31860	1.18	7.0E-55	BE670608.1	EST_HUMAN	7c37c01.x1 NCI CGAP_Juz24 Homo sapiens cDNA clone IMAGE:3284840 3'
13050	26083		6.37	7.0E-55	H23696.1	EST_HUMAN	ym57g07.t1 Scores Infant brain 1N1B Homo sapiens cDNA clone IMAGE:62444 5'
11804	24794	38492	1.96	6.0E-55	AB040934.1	NT	Homo sapiens mRNA for KIAA1501 protein, partial cds
1810	14959	28051	1.21	5.0E-55	AA704971.1	EST_HUMAN	295b09.s1 Scores_fetal_liver_spleen_1N1FLS_S1 Homo sapiens cDNA clone IMAGE:462617 3'
1810	14959	28052	1.21	5.0E-55	AA704971.1	EST_HUMAN	295b09.s1 Scores_fetal_liver_spleen_1N1FLS_S1 Homo sapiens cDNA clone IMAGE:462617 3'
4894	18024	31010	1.51	5.0E-55	AW206021.1	EST_HUMAN	UI-HB1-afy-g-09-Q-U1.s1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2723538 3'
6670	19829	33217	1.49	5.0E-55	4502240	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6670	19829	33218	1.49	5.0E-55	4502240	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6805	25833	33360	1.08	5.0E-55	4505952	NT	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
6805	25833	33361	1.08	5.0E-55	4505952	NT	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
7182	20314	33757	1.03	5.0E-55	7392477	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 5, mRNA
7446	20523	33896	0.72	6.0E-55	11434422	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9244	22321	35865	2.3	5.0E-55	4506302	NT	Homo sapiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA) mRNA
9520	22555		0.91	5.0E-55	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
10243	23278	36872	1.53	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10243	23278	36873	1.53	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10427	23462	37069	1.13	5.0E-55	5453765	NT	Homo sapiens nel (chicken) like 2 (NELL2), mRNA
11502	24560	38236	1.3	5.0E-55	11421649	NT	Homo sapiens SKAP55 homologue (SKAP-HOM), mRNA
11502	24560	38237	1.3	5.0E-55	11421649	NT	Homo sapiens SKAP55 homologue (SKAP-HOM), mRNA
12421	25298		1.73	5.0E-55	11417972	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
56	16004	26310	2.24	4.0E-55	AW957994.1	EST_HUMAN	EST370064 MAGE resequences, MAGE Homo sapiens cDNA
689	13873	26906	32.17	4.0E-55	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1) mRNA
1472	14626	27710	2.15	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1472	14626	27711	2.15	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1544	14696		1.72	4.0E-55	BF061411.1	EST_HUMAN	752570.X1 Soares NSF Pg_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3390043 3' similar to contains L1.3 L1 repetitive element:
2081	15221	28341	2.19	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2081	15221	28342	2.19	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2151	15287	28412	8.36	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (GOKD) (DGKG) mRNA
2151	15287	28413	8.36	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (GOKD) (DGKG) mRNA
2384	15515	28344	3.02	4.0E-55	4507794	NT	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA
6539	21620		9.85	4.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11505	24563		2.31	4.0E-55	W28180.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary/Homo sapiens cDNA
12337	25244		1.82	4.0E-55	BF303941.1	EST_HUMAN	60186575F2 NIH_MGC.17 Homo sapiens cDNA clone IMAGE:4120338 5'
6731	19887	33279	0.68	3.0E-55	AA077166.1	EST_HUMAN	7509A09 Chromosome 7 Fetal Brain cDNA Library/Homo sapiens cDNA clone 7B09A09
12273	25205		4.18	3.0E-55	BE178518.1	EST_HUMAN	PM1-HT0603-090300-001-g08 HT0603 Homo sapiens cDNA
13103	25719		3.53	3.0E-55	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
388	13594	26630	1.69	2.0E-55	X67147.1	NT	Human endogenous retrovirus pHE-1 (ERV9)
555	13757		1.08	2.0E-55	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
666	13852	26880	3.98	2.0E-55	4507298	NT	Homo sapiens syntaxin-binding protein 1 (STXB1P1) mRNA, and translated products
3023	15199	29222	0.89	2.0E-55	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
4807	18027	31014	3.51	2.0E-55	BE719968.1	EST_HUMAN	GMI-HT0876-150800-357-g03 HT0876 Homo sapiens cDNA
7673	25851	34217	0.85	2.0E-55	AW501988.1	EST_HUMAN	UHF-BN0-ake-f06-q-U17 NIH_MGC.50 Homo sapiens cDNA clone IMAGE:3076275 5'
9295	22342	35892	0.48	2.0E-55	BF224452.1	EST_HUMAN	ht78b08.x1 NCJ CGAP_K411 Homo sapiens cDNA clone IMAGE:3134463 3'
9285	22342	35893	0.48	2.0E-55	BF224452.1	EST_HUMAN	ht78b08.x1 NCJ CGAP_K411 Homo sapiens cDNA clone IMAGE:3134463 3'

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9361	25436		4.33	2.0E-55	AI002836.1	EST_HUMAN	am98j05.s1 Striatagene echizo brain S11 Homo sapiens cDNA clone IMAGE:1684185 3' similar to contains
9442	22819		0.67	2.0E-55	BE007069.1	EST_HUMAN	THRL2 THR repetitive element ;
11182	24261	37897	2.35	2.0E-55	AU119344.1	EST_HUMAN	QV0-BN0147-280400-213-q06 BN0147 Homo sapiens cDNA
13177	19109	26222	1.34	2.0E-55	4507798	NT	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
99	13334	26361	1.62	1.0E-55	4505080	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
184	13417	26440	40.5	1.0E-55	U09823.1	NT	Homo sapiens mannose-6-phosphate receptor (cation dependent) (M6PR) mRNA
588	13779	26798	1.38	1.0E-55	A026718.1	EST_HUMAN	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabefia2) mRNA, complete cds
1173	14336	27392	3.92	1.0E-55	AB020710.1	NT	ov85g09.x1 Soares testis NIH Homo sapiens cDNA clone IMAGE:1644180 3'
2008	15146	28251	2.33	1.0E-55	BE277861.1	EST_HUMAN	Homo sapiens mRNA for KIAA0903 protein, partial cds
2008	15146	28252	2.33	1.0E-55	BE277861.1	EST_HUMAN	601120119F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987027 5'
2401	15532		4.95	1.0E-55	5803174	NT	601120119F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987027 5'
2415	15597	28673	1.44	1.0E-55	AF000990.1	NT	Homo sapiens SMA3 (SMA3) mRNA
2586	15711	28829	19.88	1.0E-55	X13111.1	NT	Homo sapiens testis-specific Testis Transcript Y 1 (TTY1) mRNA, partial cds
2620	16743	28857	5.51	1.0E-55	AB007866.2	NT	Human mRNA for HLA-A11E, a MHG class I molecule (major histocompatibility complex)
2620	16743	28858	5.51	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
2677	16797	28914	3.37	1.0E-55	L54057.1	NT	Homo sapiens CLP mRNA, partial cds
2850	15964	29073	1.22	1.0E-55	AB033046.1	NT	Homo sapiens mRNA for KIAA1219 protein, partial cds
3495	16662	28674	1.16	1.0E-55	W26189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
4087	17252	30283	4.28	1.0E-55	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
4409	17551	30536	1.1	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4553	17968		0.94	1.0E-55	N77261.1	EST_HUMAN	yw44g03.f1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:246620 5'
4949	18079	31054	1.15	1.0E-55	AB037183.1	NT	Homo sapiens DSCR5b mRNA, complete cds
4949	18079	31055	1.15	1.0E-55	AB037183.1	NT	Homo sapiens DSCR5b mRNA, complete cds
5814	18808	31878	0.65	1.0E-55	AF119886.1	NT	Homo sapiens PRO1851 mRNA, complete cds
6401	19570	32932	7.26	1.0E-55	11433046	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
6401	19570	32933	7.26	1.0E-55	11433046	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
8178	21280	34782	1.7	1.0E-55	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
8178	21280	34783	1.7	1.0E-55	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
8266	21348	34863	0.49	1.0E-55	11421849	NT	Homo sapiens SKAP35 homologue (SKAP-HOM), mRNA
8273	21355	34872	0.93	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
8273	21355	34873	0.93	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11152	24223	37851	2.41	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11152	24223	37852	2.41	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11733	23919	37544	1.86	1.0E-55	U50950.1	NT	Human infant brain unknown product mRNA, complete cds
11755	23941	37567	1.34	1.0E-55	T10045.1	EST_HUMAN	seq1576 b4HB3MA C08-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F61 5' similar to similar to Chinese Hamster Ovary-DHFR-overexpressed protein mRNA
11789	24779	38476	2.67	1.0E-55	8922743	NT	Homo sapiens hypothetical protein FLJ10891 (FLJ10891), mRNA
11875	24864	38560	1.78	1.0E-55	10567821	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
7522	20505	34070	1.85	9.0E-56	BE379074.1	EST_HUMAN	601237702F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609552 5'
11545	24601	38277	1.34	8.0E-56	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
2793	15809	29017	7.08	7.0E-56	H19934.1	EST_HUMAN	Yn62g03.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:173044 5' similar to contains THR repetitive element ;
7818	20873	34371	1.63	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231059-013-b07 CT0252 Homo sapiens cDNA
7818	20873	34372	1.93	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231059-013-b07 CT0252 Homo sapiens cDNA
1727	14877	27969	2.7	5.0E-56	AW199712.1	EST_HUMAN	RC3-BN0053-170200-011-01 BN0053 Homo sapiens cDNA
9362	22437	35895	0.71	5.0E-56	AW015507.1	EST_HUMAN	U1-HB10p-au-a-05-011a1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2710544 3'
10689	23634		1.35	5.0E-56	W28189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12513	26137	31550	2.47	5.0E-56	H55089.1	EST_HUMAN	CHR220038 Chromosome 22 exon Homo sapiens cDNA clone C22_55 5'
28	13266	26268	8.64	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
28	13266	26269	8.64	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
2773	15888	28998	3.51	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2773	15888	28999	3.61	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2873	13732	26756	9.22	4.0E-56	AF003528.1	NT	Homo sapiens X-linked arylidic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
6387	19556	32915	4.94	4.0E-56	AF217508.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
6387	19556	32916	4.94	4.0E-56	AF217508.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10724	23757	37304	1.68	4.0E-56	AF043349.1	NT	Homo sapiens lymphocyte-specific protein 1 (LSP1) gene, LSP1-7 allele, partial cds
11163	24234	37863	7.73	4.0E-56	AI498066.1	EST_HUMAN	hm65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2183046 3'
11163	24234	37864	7.73	4.0E-56	AI498066.1	EST_HUMAN	hm65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2183046 3'
1372	14527	27901	2.69	3.0E-56	8924029	NT	Homo sapiens hypothetical protein PRO1304 (PRO1304), mRNA
1804	14953	28047	1.84	3.0E-56	8912743	NT	Homo sapiens 5'-3' exoribonuclease 2 (XRN2), mRNA
2217	15351	28482	1.61	3.0E-56	6912697	NT	Homo sapiens oncogene TC21 (TC21), mRNA
3195	16370	29376	1.67	3.0E-56	AA325828.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3195	16370	29377	1.67	3.0E-56	AA325828.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3933	17098		2.61	3.0E-56	AF055066.1	NT	Homo sapiens MHC class I region

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4507	17643	30634	0.67	3.0E-56	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
4544	17682	30684	4.42	3.0E-56	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4696	17630	30816	2.4	3.0E-56	5902085	NT	Homo sapiens superkiller viralicid activity 2 (S. cerevisiae homolog)-like (SKIV2L), mRNA
5801	18991	32269	1.5	3.0E-56	4759163	NT	Homo sapiens spermatocyte, cwcw and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
5801	18991	32294	1.5	3.0E-56	4759163	NT	Homo sapiens spermatocyte, cwcw and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
7014	20150	33571	5.5	3.0E-56	11421124	NT	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), mRNA
7476	20551	34023	2.07	3.0E-56	4504970	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
7476	20551	34024	2.07	3.0E-56	4504970	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
8016	22095	35635	6.11	3.0E-56	11418704	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
10016	23050	36552	0.9	3.0E-56	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10698	23731	37336	1.39	3.0E-56	11434668	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10980	24059	37693	2.62	3.0E-56	AB042536.1	NT	Homo sapiens mRNA, similar to rat myomegalin, complete cds
11894	24647	38330	4.64	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
11594	24647	38331	4.84	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
12377	25288	32075	1.62	3.0E-56	11434876	NT	Homo sapiens caveolin 3 (CAV3), mRNA
12377	25288	32076	1.62	3.0E-56	11434876	NT	Homo sapiens caveolin 3 (CAV3), mRNA
537	13730	1195	11.95	2.0E-56	AA159918.1	EST_HUMAN	z652a08.s1 Stratiote neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:845206 3'
751	18021	26975	1.18	2.0E-56	BE084386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
751	18021	26976	1.18	2.0E-56	BE084386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
3053	18229	28249	0.94	2.0E-56	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3391	16561	29805	0.84	2.0E-56	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
3624	16788	29805	1.26	2.0E-56	AV703184.1	EST_HUMAN	AV703184 ADB Homo sapiens cDNA clone ADBCF010 5'
7339	20323	33767	1.39	2.0E-56	5730038	NT	Homo sapiens SET domain and nuclear transposase fusion gene (SETMAR) mRNA
1003	14174	28028	3.01	1.0E-56	AF190890.1	NT	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
3765	18926	28028	1.84	1.0E-56	AW589833.1	EST_HUMAN	h923c11.x1 NCL CGAP_GCG Homo sapiens cDNA clone IMAGE:2946452 3'
3765	18926	28029	1.84	1.0E-56	AW589833.1	EST_HUMAN	h923c11.x1 NCL CGAP_GCG Homo sapiens cDNA clone IMAGE:2946452 3'
5145	18269	31236	1.42	1.0E-56	AI905162.1	EST_HUMAN	QV-BT077-130199-079 BT077 Homo sapiens cDNA
10161	23108	38886	0.69	1.0E-56	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
10254	23289	38886	1.52	1.0E-56	AW845987.1	EST_HUMAN	RC2-CT0163-220889-001-E02 CT0163 Homo sapiens cDNA
642	13927	13927	1.39	9.0E-57	AW880885.1	EST_HUMAN	QVQ-OT0033-070300-152-H03 OT0033 Homo sapiens cDNA
11484	24552	38227	1.72	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11484	24552	38228	1.72	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11811	24801	38500	2.2	9.0E-57	AB020881.1	NT	Homo sapiens mRNA for cyclin B2, complete cds
14	13252	26252	1.02	8.0E-57	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
308	13524	26568	2.93	8.0E-57	AW816405.1	EST_HUMAN	QV4-ST0234-181189-037-703 ST0234 Homo sapiens cDNA
907	14082	27147	7.49	8.0E-57	AW284589.1	EST_HUMAN	xc05d10.x1 NCI_CGAP_Bn53 Homo sapiens cDNA clone IMAGE:2759251 3' similar to gb:U05875
1859	15005	28112	1.45	8.0E-57	AA496108.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (HUMAN);
5355	26034	31679	1.92	8.0E-57	11418185	NT	zu51b12.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757151 5'
6529	19633	33066	0.61	8.0E-57	AB020705.1	NT	Homo sapiens acylase 2, mitochondrial (ACO2), mRNA
6593	19753	33138	12.82	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0898 protein, partial cds
6593	19753	33139	12.82	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7607	20877	34152	0.62	8.0E-57	7662283	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7927	20977	34487	1.54	8.0E-57	AB020644.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
11768	13252	26252	3.51	8.0E-57	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
12041	25022	38726	1.74	8.0E-57	11433356	NT	Homo sapiens rhain (LOC51199), mRNA
12102	25082	38769	1.53	8.0E-57	11431250	NT	Homo sapiens Ras suppressor protein 1 (RSU1), mRNA
12791	25528	32007	1.87	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12808	25528	32007	1.94	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
1246	14405	27487	0.88	7.0E-57	AJ003100.1	NT	Homo sapiens GYS2 gene, exon 14
2698	15917	28932	0.97	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
2898	15817	28933	0.97	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
3344	16517	29532	0.81	7.0E-57	6005979	NT	Homo sapiens Kruppel-like factor 8 (KLF8), mRNA
3982	17139	30143	3.14	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
3982	17139	30144	3.14	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
13185	26071		3.99	5.0E-57	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
3849	17009	30010	6.03	4.0E-57	AB026998.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
827	14005	27062	0.64	3.0E-57	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
1362	14516		12.47	3.0E-57	AA230279.1	EST_HUMAN	nc1307.s1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:1008037 similar to SW:RS10_HUMAN
2464	15591	28716	1.12	3.0E-57	AA348335.1	EST_HUMAN	P48783 40S RIBOSOMAL PROTEIN S10.1
2768	15883	28962	1.03	3.0E-57	BE676622.1	EST_HUMAN	EST154770 Hippocampus II Homo sapiens cDNA 5' end
							733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3286443 3' similar to WP:Y4TH9C.2
							CE20263.1

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2768	15883	28993	1.03	3.0E-57	BE676622.1	EST_HUMAN	793b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3296443 3' similar to WP:Y47H9C.2 CE20263
3852	18816	29827	1	3.0E-57	AF232708.1	NT	Homo sapiens cell-line tsA201a chloride ion current inducer protein (Cln) gene, complete cds
3788	16948		51.29	3.0E-57	AW853984.1	EST_HUMAN	RC3-CT0254-110300-027-310 CT0254 Homo sapiens cDNA
6153	18329	32675	1.25	3.0E-57	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
6251	19425	32771	3.25	3.0E-57	BE796537.1	EST_HUMAN	601589898F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
8338	21419	34945	3.92	3.0E-57	W28130.1	EST_HUMAN	4216 Human retina cDNA, randomly primed sublibrary Homo sapiens cDNA
8363	21444	34966	1.99	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8363	21444	34967	1.99	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8476	21557	35080	0.78	3.0E-57	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
8624	21704	35240	0.62	3.0E-57	J05262.1	NT	Human farnesyl pyrophosphate synthetase mRNA, complete cds
9059	22138	35682	5.14	3.0E-57	AU117659	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
9451	22587	36132	0.89	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
9451	22587	36133	0.89	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
11148	24220	37847	2.34	3.0E-57	AW248374.1	EST_HUMAN	2820473.5ptme NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820473 5'
12384	25167	31554	6.37	3.0E-57	W23871.1	EST_HUMAN	2545d11.1 Soares_fetal_lung_NBHL19W Homo sapiens cDNA clone IMAGE:306549 5'
12982	25640	31984	1.17	3.0E-57	AJ003649.1	EST_HUMAN	AJ003649 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPI10-1L1
1630	14683	27762	2.89	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNARE mRNA, complete cds
1630	14683	27763	2.89	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNARE mRNA, complete cds
2780	15906	28014	5.5	2.0E-57	AA845419.1	EST_HUMAN	ak02b02.s1 Soares_parathyroid_tumor_NbHFA Homo sapiens cDNA clone IMAGE:1404747 3' similar to contains Alu repetitive element; contains element MER22 repetitive element;
3325	16590		1.4	2.0E-57	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3841	18805	28818	0.72	2.0E-57	R07702.1	EST_HUMAN	ye98h01.r1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:125809 5'
3841	18805	28819	0.72	2.0E-57	R07702.1	EST_HUMAN	ye98h01.r1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:125809 5'
4304	17447	30433	0.71	2.0E-57	AA018299.1	EST_HUMAN	ze40c06.r1 Soares_retina_N2b4HR Homo sapiens cDNA clone IMAGE:361460 6'
4304	17447	30434	0.71	2.0E-57	AA018299.1	EST_HUMAN	ze40c06.r1 Soares_retina_N2b4HR Homo sapiens cDNA clone IMAGE:361460 5'
4832	17768	30749	7.42	2.0E-57	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
6786	18977		1.48	2.0E-57	AA016131.1	EST_HUMAN	ze31c05.r1 Soares_retina_N2b4HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.13 L1 repetitive element;
6158	19334		31.41	2.0E-57	BF115286.1	EST_HUMAN	Tn8004.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570666 3' similar to contains TAR1.11 MER22 repetitive element;
8288	19461	32813	6.34	2.0E-57	11431281	NT	Homo sapiens email inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA
8832	21811	35449	1.03	2.0E-57	AF045432.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
10051	23389	36891	1.06	2.0E-57	AF057722.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exons 3 and 4

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11548	24604	38281	1.55	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11548	24604	38282	1.55	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11592	24645	38327	1.76	2.0E-57	AJ245503.1	NT	Homo sapiens partial mRNA for PEX5 related protein
11592	24645	38328	1.76	2.0E-57	AJ245503.1	NT	Homo sapiens partial mRNA for PEX5 related protein
13214	26097	31664	2.69	2.0E-57	AF009668.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
2305	15437	28569	1.89	1.0E-57	AW503208.1	EST_HUMAN	UHF-BNO-akt-g-07-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
8891	21970		1.87	1.0E-57	BE043031.1	EST_HUMAN	h032a03.x1 NCI CGAP_L124 Homo sapiens cDNA clone IMAGE:3039052 3' similar to TR:O00246 O00246
12545	25369		11.29	1.0E-57	AW470791.1	EST_HUMAN	h033d06.x1 NCI CGAP_K1212 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3
5794	19885	32288	0.83	9.0E-58	AA297847.1	EST_HUMAN	THR repetitive element;
12854	25587	31990	1.94	9.0E-58	BE395061.1	EST_HUMAN	EST11348 Uterus Homo sapiens cDNA 5' end
602	13791		1.68	8.0E-58	BE888715.1	EST_HUMAN	EST1309485F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
671	13857	26886	4.24	8.0E-58	AJ798375.1	EST_HUMAN	EST1445948F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3850211 5'
671	13857	26887	4.24	8.0E-58	AJ798375.1	EST_HUMAN	t534b07.x1 NCI CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475
1904	15047	28157	2.4	8.0E-58	11434921	NT	UNNAMED HERV-H PROTEIN;
1904	15047	28158	2.4	8.0E-58	11434921	NT	UNNAMED HERV-H PROTEIN;
3040	16216		2.76	8.0E-58	7706192	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
7387	20465	33930	0.93	7.0E-58	BE556197.1	EST_HUMAN	Homo sapiens DHHC1 protein (LOC51304), mRNA
11095	24168		4.54	7.0E-58	5174542	NT	601349704F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3887577 5'
11170	24241	37873	2.61	7.0E-58	AW504109.1	EST_HUMAN	Homo sapiens MADS box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B) mRNA
11170	24241	37874	2.61	7.0E-58	AW504109.1	EST_HUMAN	UHF-BNO-akt-g-10-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078897 5'
2328	15490	28593	1.53	6.0E-58	BE395051.1	EST_HUMAN	UHF-BNO-akt-g-10-0-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078897 5'
2448	15576	28706	5.25	6.0E-58	AU130089.1	EST_HUMAN	601309485F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
2966	16142	29160	1.01	6.0E-58	BE242150.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
2966	16142	29161	1.01	6.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
6299	19472	32827	0.98	6.0E-58	AF106911.1	NT	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
10817	23552	37163	1.27	6.0E-58	11434746	NT	Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete cds
12654	25434		1.22	6.0E-58	11526291	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
							Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
311	13527	26560	3.06	5.0E-58	4507334	NT	Homo sapiens synaptobin 1 (SYNJ1), mRNA
728	13910	28650	0.96	5.0E-58	BE763894.1	EST_HUMAN	RC4-NT0057-160600-016-b05 NT0057 Homo sapiens cDNA
1221	14382	27442	2.9	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1221	14382	27443	2.9	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1222	14382	27442	2	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1222	14382	27443	2	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
3400	16570	29585	4.09	5.0E-58	AA988183.1	EST_HUMAN	cx98e07 s1 NCL CGAP_Lu8 Homo sapiens cDNA clone IMAGE:1603908 3'
4373	17516	30486	0.93	5.0E-58	AI636745.1	EST_HUMAN	ts89e07 x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2238488 3' similar to SW:PRO2_ACACA P19984 PROFILIN II;
5746	18998	32834	1.91	5.0E-58	11496282	NT	Homo sapiens placenta-specific 1 (PLAG1), mRNA
8307	19479	32834	6.55	5.0E-58	H23072.1	EST_HUMAN	ym57h07.r1 Scores infant brain IN1B Homo sapiens cDNA clone IMAGE:52071 5'
6624	19689	33063	0.79	5.0E-58	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C086
8800	19760	33148	1.03	5.0E-58	11421330	NT	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
6917	20232	33666	0.6	5.0E-58	AF051334.1	NT	Homo sapiens nitrin (NBS) mRNA, complete cds
6917	20232	33666	0.6	5.0E-58	AF051334.1	NT	Homo sapiens nitrin (NBS) mRNA, complete cds
7255	20338	33788	0.71	5.0E-58	4885400	NT	Homo sapiens holocytochrome c synthase (cytochrome c hemo-lyase) (HCCS) mRNA
8166	21238	34759	9.08	5.0E-58	8922693	NT	Homo sapiens hypothetical protein FLJ10826 (FLJ10826), mRNA
8548	21829	35167	0.68	5.0E-58	AB046837.1	NT	Homo sapiens mRNA for KIAA1617 protein, partial cds
10061	23095	36701	0.98	5.0E-58	11430847	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prip18 (PRP18), mRNA
10328	23363	36973	1.8	5.0E-58	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10812	23846	37254	0.65	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10612	23846	37255	0.65	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
12352	26065		4.5	5.0E-58	11526293	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA
12350	26102		1.47	5.0E-58	11428423	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
384	13592	26827	1.71	4.0E-58	4502302	NT	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP5O) mRNA
819	13988	27052	1.87	4.0E-58	4504634	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
1496	14849	27731	1.24	4.0E-58	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2096	15816	28930	2.12	4.0E-58	U88251.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 3
3402	16572	29587	1.41	4.0E-58	D16470.1	NT	Human mRNA, Xq terminal portion
3834	16994	29996	1	4.0E-58	5031660	NT	Human sapiens EGF-like repeats and discoidin 1-like domains 3 (EDIL3), mRNA
7895	21045	34557	0.88	4.0E-58	BE463857.1	EST_HUMAN	hy18a02.x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:3197642 3'
11624	24676	38366	7.44	4.0E-58	11424069	NT	Homo sapiens ETB-55kDa-associated protein 6 (ETB-AP6), mRNA

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
345	13556		0.96	3.0E-58	R17879.1	EST_HUMAN	y910a02.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31683 5'
1420	14574	27647	2.6	3.0E-58	4758981	NT	Homo sapiens peptide YY (PYY) mRNA
3246	14420	29435	3.07	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'
3246	16420	29436	3.07	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'
6900	19559	32918	0.61	3.0E-58	BE089509.1	EST_HUMAN	QV0-BT0702-170400-194-809 BT0702 Homo sapiens cDNA
6574	19736	33115	1.1	3.0E-58	F07056.1	EST_HUMAN	HSC1TG081 normalized infant brain cDNA Homo sapiens cDNA clone c-11g08
6778	19933	33329	2.48	3.0E-58	AV712977.1	EST_HUMAN	AV712977 DCA Homo sapiens cDNA clone DCAA ZG04 5'
963	14136	27197	12.47	2.0E-58	AF068624.1	NT	Homo sapiens 5-aminolevulinic acid synthase 2 (ALAS2) gene, complete cds
1318	14474		7.88	2.0E-58	BE208532.1	EST_HUMAN	ba08807.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb:X65391.60S RIBOSOMAL PROTEIN L6 (HUMAN); gb:X81987.M1.musculus mRNA for TAX responsive element binding protein (MOUSE);
5451	18651	31630	0.94	2.0E-58	AW074831.1	EST_HUMAN	xa08a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2567704 3'
5473	25805	31652	2.53	2.0E-58	BE907186.1	EST_HUMAN	601498961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
5473	25805	31685	2.53	2.0E-58	BE907186.1	EST_HUMAN	601498961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
6182	19358	32706	1.7	2.0E-58	BF513488.1	EST_HUMAN	U14H-BW1-ams-g-11-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071060 3'
6249	19423	32769	2.16	2.0E-58	A124874.1	EST_HUMAN	em37602.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539674 3' similar to WP:ZK328.1 GE05065 UBIQUITIN CONJUGATING ENZYME; RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN ;
6283	19456	32806	0.83	2.0E-58	R92587.1	EST_HUMAN	yx08h06.r1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:1963778 5'
7066	20119	33533	0.83	2.0E-58	A1291407.1	EST_HUMAN	qm84c01.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1898424 3'
7307	20389	33848	2.79	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7307	20389	33849	2.79	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
10979	24058	37692	16.01	2.0E-58	BF307745.1	EST_HUMAN	601890812F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131891 5'
11207	24276	37913	1.58	2.0E-58	AW87284.1	EST_HUMAN	hm25f08.x1 NCI_CGAP_Thy4 Homo sapiens cDNA clone IMAGE:3013871 3'
740	13922	26962	1.06	1.0E-58	M65134.1	NT	Human complement component C5 mRNA, 3' end
1093	14258	27314	1.33	1.0E-58	6274649	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22kD, B22) (NDUFB9), mRNA
1358	14513	27586	1.12	1.0E-58	AW957182.1	EST_HUMAN	EST366282 MAGe resequences, MAGD Homo sapiens cDNA
1358	14513	27587	1.12	1.0E-58	AW957182.1	EST_HUMAN	EST366282 MAGe resequences, MAGD Homo sapiens cDNA
1427	14581	27654	2.8	1.0E-58	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1697	14849	27935	1.28	1.0E-58	BE466132.1	EST_HUMAN	hy10f08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3196935 3'
2719	15837	28947	1.01	1.0E-58	AF217914.1	NT	Homo sapiens uncharacterized bone marrow protein BM038 mRNA, complete cds
2863	15977	29087	1.14	1.0E-58	4759169	NT	Homo sapiens steroid regulatory element binding transcription factor 2 (SREBF2) mRNA
2892	15206	28322	1.01	1.0E-58	5174444	NT	Homo sapiens G protein-coupled receptor 68A (GPR68A) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3627	16791	29809	0.93	1.0E-58	4758091	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3627	16791	29810	0.93	1.0E-58	4758091	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3814	16974	29977	0.66	1.0E-58	4507628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNPT1) mRNA
5085	18213	31186	7.13	1.0E-58	A1141063.1	EST_HUMAN	024301.x1 Scores_NihMPu_ST Homo sapiens cDNA clone IMAGE:1078129 3'
5964	19150	32465	1.37	1.0E-58	BE061860.1	EST_HUMAN	RC1-BT0254-290100-016-001 BT0254 Homo sapiens cDNA
7002	20138	33558	0.87	1.0E-58	11422031	NT	Homo sapiens hypothetical protein (LOC51260), mRNA
8305	21387		0.49	1.0E-58	AW973637.1	EST_HUMAN	EST385637 MAGe resequences, MAGM Homo sapiens cDNA
9070	22149	35695	0.62	1.0E-58	4505314	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
9182	22260	35602	0.77	1.0E-58	AV751001.1	EST_HUMAN	AV751001 NPC Homo sapiens cDNA clone NPCACH09 5'
9282	22358	35907	0.64	1.0E-58	AA412397.1	EST_HUMAN	Z8905.r1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:730497 5'
9282	22358	35908	0.64	1.0E-58	AA412397.1	EST_HUMAN	Z8905.r1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:730497 5'
10388	23424	37031	0.65	1.0E-58	11432894	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
12074	25055		2.1	1.0E-58	X63302.1	NT	H sapiens immunoglobulin kappa light chain variable region L14
12100	25080	38787	2.61	1.0E-58	D61405.1	NT	Human MSH3 gene, exon10
2303	15435	28507	53.38	8.0E-59	4507378	NT	Homo sapiens TATA box binding protein (TBP) mRNA
6978	20207	33635	0.74	8.0E-59	AA382291.1	EST_HUMAN	EST95683 Testis I Homo sapiens cDNA 5' end
6978	20207	33636	0.74	8.0E-59	AA382291.1	EST_HUMAN	EST95683 Testis I Homo sapiens cDNA 5' end
8374	21455	34979	1.55	8.0E-59	A1761863.1	EST_HUMAN	wh60406.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384171 3'
182	16006		1.97	6.0E-59	BF036327.1	EST_HUMAN	001458531F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3662066 5'
8015	21066	34579	0.62	6.0E-59	AA962-31.1	EST_HUMAN	0m81e04.x1 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1553550 3' similar to TR:Q13732 Q13732 SA GENE PRODUCT PRECURSOR. ;
8440	21521	35050	0.69	6.0E-59	A1750970.1	EST_HUMAN	cn06h02.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn06h02 random
3197	16372	29379	7.75	6.0E-59	A1607484.1	EST_HUMAN	wf48c11.x1 Scores_NFL_T_GBC_ST Homo sapiens cDNA clone IMAGE:2358836 3'
4780	17915	30901	9.94	5.0E-59	X83497.1	NT	H sapiens DNA for ZNF80-linked ERV9 long terminal repeat
7129	18555	31470	8.22	5.0E-59	AW162304.1	EST_HUMAN	au66c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains element TAR1 repetitive element ;
9006	22085	35628	1.03	5.0E-59	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
9906	22946	36532	1.44	5.0E-59	AV762869	EST_HUMAN	AV762869 MDS Homo sapiens cDNA clone MDSEIC12 5'
11146	24218	37845	4.54	5.0E-59	11434008	NT	Homo sapiens hypothetical protein (LOC57143), mRNA
816	13985	27050	1.9	4.0E-59	D80306.1	NT	Human mRNA for KIAA0184 gene, partial cds
1266	14423	27489	0.61	4.0E-59	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products

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1266	14423	27490	0.61	4.0E-59	4505818	NT	Homo sapiens phosphatidylinositol 4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
4912	18042	31032	1.14	4.0E-59	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
4912	18042	31033	1.14	4.0E-59	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
5654	18848	32130	0.95	4.0E-59	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
12498	26996		3.99	4.0E-59	AF057720.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
10	13248		6.74	3.0E-59	AW965524.1	EST_HUMAN	EST377582 MAGE sequences; MAGI Homo sapiens cDNA
234	13455	26481	3.88	3.0E-59	7692247	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
1748	14897	27992	10.81	3.0E-59	4505850	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
1748	14897	27993	10.81	3.0E-59	4505850	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
2198	15333	29459	8.54	3.0E-59	AB020035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
2198	15333	28490	8.54	3.0E-59	AB020035.1	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3104	16280	29294	0.67	3.0E-59	T18865.1	EST_HUMAN	h020171 Testis 1 Homo sapiens cDNA clone h02017 5' end
3104	16280	29295	0.67	3.0E-59	T18865.1	EST_HUMAN	h020171 Testis 1 Homo sapiens cDNA clone h02017 5' end
3199	16374	29383	4.27	3.0E-59	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3199	16374	29384	4.27	3.0E-59	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3930	17089	30086	1.19	3.0E-59	4505044	NT	Homo sapiens zona pellucida glycoprotein 2 (sperm receptor) (ZP2) mRNA
4808	17942	30929	2.75	3.0E-59	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4865	18094	31071	2.12	3.0E-59	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
5162	18284		1.22	3.0E-59	M95961.1	NT	Human prichormone converting enzyme (NEC2) gene, exon 2
6350	19520	32877	2.4	3.0E-59	8024074	NT	Homo sapiens nuclear receptor co-repressor 1 (NCOB1), mRNA
6350	19520	34064	1.85	3.0E-59	5454137	NT	Homo sapiens nuclear receptor co-repressor 1 (NCOB1), mRNA
7516	21198	34718	1.11	3.0E-59	X12556.1	NT	Human mRNA for ddb proto-oncogene
8116	21198	34719	1.11	3.0E-59	X12556.1	NT	Human mRNA for ddb proto-oncogene
10250	23285	35680	1.04	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
10250	23286	36881	1.04	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
12635	25428		11.11	3.0E-59	11417866	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGTLA1), mRNA
6946	20259		0.59	2.0E-59	AA470073.1	EST_HUMAN	298405.51 Soares testis NHT Homo sapiens cDNA clone IMAGE:790377 3'
7216	20811	33494	0.59	2.0E-59	AF135187.1	NT	Homo sapiens interferon-induced protein p78 (MX1) gene, complete cds
9837	22877		4.84	2.0E-59	AA309774.1	EST_HUMAN	EST180633 Jurkat T-cells V Homo sapiens cDNA 5' end
10745	23778		1.34	2.0E-59	BF365554.1	EST_HUMAN	RCO-NT0036-100700-032-a07 NT0036 Homo sapiens cDNA
11069	24144	37780	2.19	2.0E-59	AW410698.1	EST_HUMAN	h07104.4.1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2981654 5'

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11069	24144	37781	2.19	2.0E-59	AW410698.1	EST_HUMAN	ff07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2981654 5'
12373	25266	32118	4.28	2.0E-59	AI631809.1	EST_HUMAN	wa36c12.x1 NCLCGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR:Q86642
12663	26019	31669	3.87	2.0E-59	L11045.1	NT	Q86542 RTVL-H PROTEIN, contains LTR7.b1 LTR7 repetitive element ;
167	13392		5.86	1.0E-69	BE286411.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
1669	14722	27803	1.04	1.0E-59	T92522.1	EST_HUMAN	S01176757F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531927 5'
2683	15803		2.65	1.0E-59	AA748488.1	EST_HUMAN	Y25C09.1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:118768 5' similar to SP:S21348
7735	20796	34285	1.14	1.0E-59	AJ130894.1	NT	S21348 HYPOTHETICAL PROTEIN 4 - ;
7895	20947	34454	1.3	1.0E-59	BE256814.1	EST_HUMAN	Q456H11.s1 NCLCGAP_GCB1 Homo sapiens cDNA clone IMAGE:1308029 3' similar to TR:Q13637
7895	20947	34455	1.3	1.0E-59	BE256814.1	EST_HUMAN	Q13637 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. ;
9804	22844	36421	0.58	1.0E-59	11428849	NT	Homo sapiens mRNA for transcription factor
9804	22844	36422	0.59	1.0E-59	AJ130894.1	NT	Homo sapiens mRNA for transcription factor
11094	20796	34285	10.98	1.0E-59	AJ130894.1	NT	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352892 5'
783	13863	27013	1.45	8.0E-60	AW977845.1	EST_HUMAN	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352892 5'
1499	14662	27734	3.21	8.0E-60	4769159	NT	Homo sapiens zinc finger protein 275 (ZNF275), mRNA
2241	15374	28502	4.76	8.0E-60	5174656	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
2241	15374	28503	4.76	8.0E-60	5174656	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
6103	19283	32616	1.16	8.0E-60	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6833	19792	33181	0.89	8.0E-60	S83182.1	NT	EST389849 MAGE resequences, MAGO Homo sapiens cDNA
7874	20928	34434	0.89	8.0E-60	11420841	NT	Homo sapiens small nuclear ribonucleoprotein D8 polypeptide (18kD) (SNRPD3) mRNA
8152	21234	34755	3	8.0E-60	X17033.1	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
9139	22218	35762	2.93	8.0E-60	11428949	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
9671	22633	36202	0.78	8.0E-60	11417118	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
9671	22633	36203	0.78	8.0E-60	11417118	NT	Human mRNA for integrin alpha-2 subunit
10799	23832	37455	0.82	8.0E-60	5453997	NT	Homo sapiens S-antigen: retina and pineal gland (arrestin) (SAG), mRNA
11071	24146	37763	4.17	8.0E-60	AL169204.2	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
11071	24146	37784	4.17	8.0E-60	AL169204.2	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
773	13954	27004	11.11	7.0E-60	AF055066.1	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
774	13954	27004	25.11	7.0E-60	AF055066.1	NT	Homo sapiens chromosome 21 segment HS21C004
838	14016	27071	1.47	7.0E-60	4504634	NT	Homo sapiens chromosome 21 segment HS21C004
						NT	Homo sapiens MHC class 1 region
						NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA

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2187	15332	28458	1.82	7.0E-60	AF071188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2845	15369	29068	0.98	7.0E-60	AB011153.1	NT	Homo sapiens mRNA for KIA0581 protein, partial cds
4295	17438	30425	2.4	7.0E-60	4805488	NT	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA
4695	17833	30818	0.91	7.0E-60	AF204750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
9607	22662	36235	4.21	7.0E-60	H58041.1	EST_HUMAN	Y1204.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element;
11646	24725	38417	1.73	7.0E-60	H58041.1	EST_HUMAN	Y1204.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element;
2248	15381	28509	1.16	6.0E-60	BE964874.2	EST_HUMAN	601858751R1 NIH_MGC_59 Homo sapiens cDNA clone IMAGE:3880069 3'
8532	21712		8.04	6.0E-60	H52466.1	EST_HUMAN	X78109.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:201953 5' similar to contains OFR repetitive element;
86	13321	26348	1.06	5.0E-60	A1807917.1	EST_HUMAN	W52507.x1 Soares NFL_T_GSC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
88	13321	26349	1.06	5.0E-60	A1807917.1	EST_HUMAN	W52507.x1 Soares NFL_T_GSC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
2308	15440	28574	1.83	4.0E-60	AW503208.1	EST_HUMAN	U1HF-BNO-akt-g-07-Q-J1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
2308	15440	28575	1.83	4.0E-60	AW503208.1	EST_HUMAN	U1HF-BNO-akt-g-07-Q-J1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
3037	16213		1.45	4.0E-60	AA289037.1	EST_HUMAN	EST11498 Uterus Homo sapiens cDNA 5' end similar to similar to retrovirus-related pol
7508	20582	34055	0.78	4.0E-60	BF196068.1	EST_HUMAN	h81f05.x1 NCL CGAP_Kid1 Homo sapiens cDNA clone IMAGE:3134513 3' similar to SW:RHOP_MOUSE Q81085 GTP-RHO BINDING PROTEIN 1;
8326	22402		0.65	4.0E-60	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
1907	15050	28161	4.98	3.0E-60	BE562811.1	EST_HUMAN	601336446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'
1907	15050	28162	4.98	3.0E-60	BE562811.1	EST_HUMAN	601336446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'
1918	15081		2.81	3.0E-60	6031190	NT	Homo sapiens prohibitin (PHB) mRNA
4579	17116	30669	2.75	3.0E-60	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
5694	18693	31709	0.69	3.0E-60	BF365143.1	EST_HUMAN	QV4-NN149-250900-423401 NN1149 Homo sapiens cDNA
5757	18949	32251	2.21	3.0E-60	AW836196.1	EST_HUMAN	RC34.LT0023-200100-012-01 LT0023 Homo sapiens cDNA
7093	18520	31513	1.07	3.0E-60	A1792814.1	EST_HUMAN	Q60H11.y5 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1634053 5' similar to SW:UDP_MOUSE P52624 URIDINE PHOSPHORYLASE;
8597	21678	35215	4.59	3.0E-60	5174844	NT	Homo sapiens prolidase dehydrogenase (proline oxidase) (PRODH) mRNA
8597	21678	35216	4.59	3.0E-60	5174644	NT	Homo sapiens prolidase dehydrogenase (proline oxidase) (PRODH) mRNA
8783	21862	35405	0.6	3.0E-60	A1040293.1	EST_HUMAN	Q68009.x1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:1660337 3' similar to SW:FORM_MOUSE Q05860 FORMIN;
8940	22019	35560	3.84	3.0E-60	5174844	NT	Homo sapiens prolidase dehydrogenase (proline oxidase) (PRODH) mRNA
13053	25058		1.55	3.0E-60	AA485286.1	EST_HUMAN	ab07104.1 Stragene lung (#637210) Homo sapiens cDNA clone IMAGE:840161 5' similar to contains LTR10.LTR10 repetitive element;

Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
31	13269	26273	1.7	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1458	14608	27698	3.99	2.0E-60	Z11894.1	NT	H. sapiens 41kDa protein kinase related to rat ERK2
1759	14908	28001	2.2	2.0E-60	M24603.1	NT	Human bcr protein mRNA, 5' end
3659	18832	29843	0.78	2.0E-60	4757687	NT	Homo sapiens v-rat murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
4025	17181	30190	0.73	2.0E-60	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
8430	19588	32984	0.85	2.0E-60	AI791962.1	EST_HUMAN	nm011212 NCL CGAP_C09 Homo sapiens cDNA clone IMAGE:1076495 5' similar to contains THR.t1 THR repetitive element;
8621	19781	33169	1.26	2.0E-60	AF004877.1	NT	Homo sapiens pro-alpha 2(I) collagen (COL1A2) gene, complete cds
8855	20008	33418	1.08	2.0E-60	AF167476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
6989	18508	31524	2.15	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA
6989	18508	31525	2.15	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA
7269	20342	33793	8.18	2.0E-60	AA311169.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' and similar to similar to prothymosin, alpha
7269	20342	33794	8.18	2.0E-60	AA311169.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' and similar to similar to prothymosin, alpha
7810	20865	34799	0.9	2.0E-60	BF512808.1	EST_HUMAN	ULH-BW1-emu-c-02-0-JL1 NCI CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071210 3'
8194	21276	34799	1.33	2.0E-60	X85597.1	EST_HUMAN	HS15BEST human adult testis Homo sapiens cDNA clone CAM_EST15
9068	22147	35694	3.12	2.0E-60	L36033.1	NT	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds
10183	23220	36813	1.83	2.0E-60	11991859	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaaphorin) 6A (SEMA6A), mRNA
10183	23220	36814	1.83	2.0E-60	11991859	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaaphorin) 6A (SEMA6A), mRNA
11759	23945	37572	1.7	2.0E-60	11434729	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
12872	25448		2.36	2.0E-60	11418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA
12828	25985		1.47	2.0E-60	AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12848	25664		1.5	2.0E-60	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
535	13728	26762	1.02	1.0E-60	BE176586.1	EST_HUMAN	PM9-HT0605-270200-001-608 HT0605 Homo sapiens cDNA
4011	17163	30176	1.08	1.0E-60	AU143389.1	EST_HUMAN	AU143389 Y76AA1 Homo sapiens cDNA clone Y76AA1007854 5'
5070	18198	31172	2.57	1.0E-60	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
8134	21216	34737	1.39	1.0E-60	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-508 BT0311 Homo sapiens cDNA
8955	22034		2.84	1.0E-60	AA244041.1	EST_HUMAN	nc04e121 NCL CGAP_P1 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.t1 L1 repetitive element;
8882	22061	35601	1.35	1.0E-60	AV754081.1	EST_HUMAN	AV754081 TP Homo sapiens cDNA clone TPGAED05 5'
12606	26079		1.49	1.0E-60	AJ252313.1	NT	Homo sapiens genomic hybrid Rhesus box
1123	14283	27343	8.4	9.0E-61	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005593 5'

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8908	21987	35526	0.53	9.0E-61	4893546	NT	Homo sapiens PHD finger protein 2 (PHF2) mRNA
8908	21987	35527	0.53	9.0E-61	4895546	NT	Homo sapiens PHD finger protein 2 (PHF2) mRNA
2735	15852	28965	1.41	8.0E-61	AW006478.1	EST_HUMAN	w05b10.x1 NCI_CGAP_Cc3 Homo sapiens cDNA clone IMAGE:2506555 3'
2735	15852	28966	1.41	8.0E-61	AW006478.1	EST_HUMAN	w05b10.x1 NCI_CGAP_Cc3 Homo sapiens cDNA clone IMAGE:2506555 3'
3016	16192		2.63	8.0E-61	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
8079	21161	34679	1.03	8.0E-61	AA583968.1	EST_HUMAN	m55g06.s1 NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088218 3'
130	13357	26389	0.79	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
130	13357	26390	0.79	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
276	13484	26524	3.06	6.0E-61	BE409310.1	EST_HUMAN	Homo sapiens PXR2b protein (PXR2b), mRNA
834	14012	27068	6.49	8.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
1352	14507	27579	12.72	6.0E-61	AF119880.1	NT	Homo sapiens PRO2014 mRNA, complete cds
1689	14811	27896	1.04	6.0E-61	BE257400.1	EST_HUMAN	601109238F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350145 5'
1679	14831	27916	2.91	6.0E-61	AA599033.1	EST_HUMAN	m68h100.s1 NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088697 3'
3381	16553	29567	8.16	6.0E-61	AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
6155	19331	32677	2.96	6.0E-61	S79249.1	NT	Ig-beta/529=CD79b (alternatively spliced) [human, B cells, mRNA Partial, 375 nt]
7497	20372	34045	1.49	6.0E-61	U24498.1	NT	Human autosomal dominant polycystic kidney disease protein 1 (PKD1) gene
7795	20851	34343	1.85	6.0E-61	AF035737.1	NT	Homo sapiens general transcription factor 2-1 (GTF2I) mRNA, complete cds
12564	14012	27068	1.66	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
13157	25752	31925	1.42	6.0E-61	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
226	13448	26476	2.54	5.0E-61	8922890	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
226	13448	26477	2.64	5.0E-61	8922890	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
370	13579	26612	0.7	5.0E-61	4507600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1713	14884	27953	2.84	5.0E-61	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3101	16277	29291	2.19	5.0E-61	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
3268	16442	29462	1.82	5.0E-61	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nadn-II, Alzheimer disease) (APP), mRNA
4090	17245		2.22	5.0E-61	AJ228041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 178
5118	13379	26612	0.76	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1798	14947	28039	1.94	4.0E-61	AU140307.1	EST_HUMAN	AU140307 PLACE2 Homo sapiens cDNA clone PLACE2000302 5'
5936	16122	32435	0.71	4.0E-61	7691637	NT	Homo sapiens DKFZP566B023 protein (DKFZP566B023), mRNA
12349	25252		9.47	4.0E-61	AV731140.1	EST_HUMAN	AV731140 HTF Homo sapiens cDNA clone HTFARB01 5'
8616	21996	35234	0.7	3.0E-61	AF150190.1	EST_HUMAN	AF150190 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone CBDAGEB04
511	13705	26733	1.8	2.0E-61	8922829	NT	Homo sapiens hypothetical protein FLJ11028 (FLJ11028), mRNA
1239	14398	27460	5.33	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-401 HT0513 Homo sapiens cDNA

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1239	14398	27461	5.33	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-001 HT0513 Homo sapiens cDNA
1699	14851	27838	1.36	2.0E-61	N53039.1	EST_HUMAN	y63d11.s1 Soares fetal liver spleen 1NF1S Homo sapiens cDNA clone IMAGE:248453 3' similar to gb:U28444.60S RIBOSOMAL PROTEIN L35A (HUMAN);
2706	15824		1.72	2.0E-61	N39397.1	EST_HUMAN	y03f11.r1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:270169 6'
6556	19718	33094	0.88	2.0E-61			Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD) (ATP6N1A), mRNA
9217	22295	35839	1.87	2.0E-61	AV694317.1	EST_HUMAN	AV694317 GK6 Homo sapiens cDNA clone GKGEL G08 5'
9762	22700		0.98	2.0E-61	AB011108.1	NT	Homo sapiens mRNA for KIAA0536 protein, partial cds
10126	23164	36763	1.34	2.0E-61	AW500256.1	EST_HUMAN	U1HF-BNO-akd-f-12-Q-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076774 5'
10466	23491	37101	2.84	2.0E-61	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (38kD) (RPC39), mRNA
11123	24196	4	4	2.0E-61	11419729	NT	Homo sapiens ribosomal protein L44 (RPL44), mRNA
13144	25744	31950	1.45	2.0E-61	AW99528.1	EST_HUMAN	QV6-BN0042-170300-162-F10 BN0042 Homo sapiens cDNA
448	13644		1.37	1.0E-61	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
784	13973	27026	1.28	1.0E-61	5453929	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L), mRNA
1430	14584	27658	1.07	1.0E-61	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1809	14858		1.02	1.0E-61	U32857.1	NT	Human polymorphic thymidine repeat in X-linked retinitis pigmentosa (RP3) gene region
1906	15049	28190	4.43	1.0E-61	6005983	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
2270	15403	28531	1.64	1.0E-61	AW827281.1	EST_HUMAN	xt11b09.y1 NCL_CGAP_L15 Homo sapiens cDNA clone IMAGE:2693369 5' similar to contains element MSR1 repetitive element;
2896	16075	29093	0.98	1.0E-61	BE396393.1	EST_HUMAN	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614667 5'
3163	16630	29650	0.85	1.0E-61	7662319	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
3828	16986	29689	1.16	1.0E-61	BE174455.1	EST_HUMAN	QV2-HT0577-140300-077-g08 HT0577 Homo sapiens cDNA
4374	17517	30497	1.05	1.0E-61	M68840.1	NT	Human monoamine oxidase A (MAOA), complete cds
4561	17699	30680	0.95	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK), mRNA
4561	17699	30681	0.95	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK), mRNA
4881	18110	31086	8.55	1.0E-61	AW288181.1	EST_HUMAN	U1-HBW0-ajl-b-08-Q-U1.s1 NCL_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
4981	18110	31087	9.59	1.0E-61	AW288181.1	EST_HUMAN	U1-HBW0-ajl-b-08-Q-U1.s1 NCL_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
5076	18203	31175	0.92	1.0E-61	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
5509	18708	31723	0.71	1.0E-61	M76423.1	NT	H. sapiens carbonic anhydrase VII (CA VII) gene, exons 4,5,6, and 7, and complete cds
5905	18996	32301	1.07	1.0E-61	7662303	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
6004	19189	32508	1.32	1.0E-61	11416891	NT	Homo sapiens survival of motor neuron 1, telomeric (SMN1), mRNA
7041	20094	33510	8.62	1.0E-61	M30135.1	NT	Human P40 T-cell and mast cell growth factor (HP40) gene, complete cds
7240	20324	33798	0.77	1.0E-61	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
7341	20421	33893	1.39	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7341	20421	33884	1.39	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8326	21408	34935	2.89	1.0E-61	11034840	NT	Homo sapiens growth hormone releasing hormone (GHRH), mRNA
8508	21589	35123	3.34	1.0E-61	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9482	22639		2.78	1.0E-61	AW689726.1	EST_HUMAN	NR0-BN0070-040405-010-101 BN0070 Homo sapiens cDNA
9557	22622	36193	0.58	1.0E-61	11416280	NT	Homo sapiens cadherin 18 (CDH18), mRNA
10235	23270	36861	4.8	1.0E-61	11428892	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
10871	23953	37585	5.81	1.0E-61	11425578	NT	Homo sapiens actinin, alpha 4 (ACTN4), mRNA
11178	24247	37880	1.72	1.0E-61	AB044580.1	NT	Homo sapiens P/Okl 19 mRNA for ubiquitin-conjugating enzyme E2, complete cds
11325	24388	38033	1.44	1.0E-61	AB007830.1	NT	Homo sapiens mRNA for GSR2, complete cds
12242	26043		21.57	1.0E-61	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
12286	26031	31677	4	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12286	26031	31678	4	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13026	25676	31959	10.94	1.0E-61	11418127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
10565	23600	37206	1.08	9.0E-62	BE084386.1	EST_HUMAN	RC4-BT0310-110300-016-f10 BT0310 Homo sapiens cDNA
4673	17608	30798	0.85	8.0E-62	AA830420.1	EST_HUMAN	cc68h11.s1 NC1_CGAP_G0B1 Homo sapiens cDNA clone IMAGE:1954725 3' similar to SW:POL_MLYRK
1131	14268	27351	1.12	7.0E-62	AV714334.1	EST_HUMAN	P31795 POL POLYPROTEIN ;
3695	16759	29775	0.84	7.0E-62	P17480	SWISSPROT	AV714334 DCB Homo sapiens cDNA clone DCBAMA08 5'
6038	19221	32544	0.97	7.0E-62	11427965	NT	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1)
11632	24712	38403	4.05	7.0E-62	AI208881.1	EST_HUMAN	Homo sapiens hypothetical protein (FLJ20261), mRNA
3063	16239		1.55	6.0E-62	U09410.1	NT	q558a04.x1 Scarsa testis_NHT Homo sapiens cDNA clone IMAGE:1839150 3' similar to TR:O15103
3471	16638		5.37	8.0E-62	11418255	NT	O15103 HYPOTHETICAL 27.3 KD PROTEIN ;
7803	20859	34351	3.47	6.0E-62	AI762801.1	EST_HUMAN	Human zinc finger protein ZNF131 mRNA, partial cds
7803	20859	34352	3.47	6.0E-62	AI762801.1	EST_HUMAN	Homo sapiens CGI-56 protein (CGI-56), mRNA
8277	21359		0.86	6.0E-62	AW501124.1	EST_HUMAN	w04d02.x1 NC1_CGAP_G0B1 Homo sapiens cDNA clone IMAGE:2389251 3'
8452	21633	35063	1.52	6.0E-62	11431139	NT	w04d02.x1 NC1_CGAP_G0B1 Homo sapiens cDNA clone IMAGE:2389251 3'
9554	22619	36189	3.67	6.0E-62	AW814593.1	EST_HUMAN	UHF-BP0p-alk-4-08-0-U1.1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072833 5'
429	13624	26684	1.46	5.0E-62	AI950528.1	EST_HUMAN	Homo sapiens CGI-18 protein (LOC51008), mRNA
2478	15605	28729	5.16	5.0E-62	AJ271735.1	NT	MR3-ST0203-130100-025-a09 ST0203 Homo sapiens cDNA
2478	15605	28730	5.16	5.0E-62	AJ271735.1	NT	w051e07.x1 NC1_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN
							Q08379 GOLGIN-95, contains element MER22 repetitive element ;
							Homo sapiens Xq pseudocentromeric region; segment 1/2
							Homo sapiens Xq pseudocentromeric region; segment 1/2

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3506	16673	28683	2.55	5.0E-62	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
4447	17587	30368	1.75	5.0E-62	AA431093.1	EST_HUMAN	zw78a09.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT
8748	21826	35362	0.74	5.0E-62	4506758	NT	P47245 NARDILYSIN ;
8717	22782	36363	12.91	5.0E-62	AW410687.1	EST_HUMAN	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
11943	24699	38274	2.38	5.0E-62	11425574	NT	h07g09.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961616 5'
11543	24699	38275	2.38	5.0E-62	11425574	NT	Homo sapiens muscle specific gene (M9), mRNA
							Homo sapiens muscle specific gene (M9), mRNA
863	14040	27102	2.17	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
							ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
863	14040	27103	2.17	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
							ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
864	14040	27102	1.32	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
							ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
864	14040	27103	1.32	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104
							ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2528	15654	28778	1.0	4.0E-62	AI827900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to
							gb:X57138_rna1 HISTONE H2B.2 (HUMAN);
2528	15654	28779	1.9	4.0E-62	AI827900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to
3486	16654		9.09	4.0E-62	4557987	NT	gb:X57138_rna1 HISTONE H2B.2 (HUMAN);
							Homo sapiens keratin 18 (KRT18) mRNA
6046	19229	32553	1.71	4.0E-62	4506978	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA
6428	19594	32960	2.81	4.0E-62	11420654	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7322	20404	33866	1.75	4.0E-62	11421041	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase 2 (PRPS2), mRNA
7812	20887	34361	2.21	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
7812	20887	34362	2.21	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8364	21445	34988	1.12	4.0E-62	11429973	NT	Homo sapiens 28S proteasome-associated pad1 homolog (POH1), mRNA
8047	22126	35670	6.42	4.0E-62	AB030399.1	NT	Homo sapiens mRNA for KIAA1263 protein, partial cds
11263	24332	37873	2.62	4.0E-62	Z78766.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA18D3
11263	24332	37974	2.62	4.0E-62	Z78766.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA18D3
11500	24658	38233	63.7	4.0E-62	S70584.1	NT	(thyroid-stimulating hormone alpha subunit (human, Genomic, 268 nt, segment 3 of 4)
12269	25202	38360	1.18	4.0E-62	11418086	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12487	25989		1.66	4.0E-62	11418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHIP2L1), mRNA

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12946	25657	31955	1.66	4.0E-62	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR4), mRNA
13004	25653	31952	6.86	4.0E-62	11417662	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
13004	25653	31953	6.86	4.0E-62	11417662	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
13059	25693	31955	2.16	4.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
76	13312	26338	0.99	3.0E-62	4557794	NT	Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2), mRNA
3111	16287	29301	1.13	3.0E-62	AB040908.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3111	16287	29302	1.13	3.0E-62	AB040908.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3789	18950	29956	4.19	3.0E-62	X52658.1	NT	Human cyclophilin-related processed pseudogene
8737	21816	35351	3.74	3.0E-62	A1632733.1	EST_HUMAN	wa33f04.x1 NCI_CGAP_Kid111 Homo sapiens cDNA clone IMAGE:2289903 3' similar to contains THR.12
1259	14417	27482	2.71	2.0E-62	AL163284.2	NT	THR repetitive element;
8974	22053	35595	5.59	2.0E-62	BF320911.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
8974	22053	35596	5.59	2.0E-62	BF320911.1	EST_HUMAN	RCU-BN0284-300500-031-e03 BN0284 Homo sapiens cDNA
10376	23411		3.71	2.0E-62	AF224699.1	NT	RCU-BN0284-300500-031-e03 BN0284 Homo sapiens cDNA
11988	24973		8.83	2.0E-62	BF330676.1	EST_HUMAN	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
1068	14235	27284	1.14	1.0E-62	AF248540.1	NT	(UBE2D3) genes, complete cds
1575	14728	27809	18.41	1.0E-62	L78810.1	NT	QV4-BT0257-081199-017-e03 B.T0257 Homo sapiens cDNA
1842	14988	28088	1.64	1.0E-62	AA625207.1	EST_HUMAN	Homo sapiens ADP/ATP carrier protein (ANT-2) genes, complete cds
2981	16157	28176	1.22	1.0E-62	AL039044.1	EST_HUMAN	af70e11.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1
4648	17784	30767	1.84	1.0E-62	8923201	NT	CE03453;
6418	19587	32950	2.02	1.0E-62	U52111.2	NT	DKFZ566F104_r1 586 (synonym: hRad2) Homo sapiens cDNA clone DKFZ566F104 5'
7284	20367	33820	1.07	1.0E-62	AA490060.1	EST_HUMAN	Homo sapiens hypofibrin protein FLJ20212 (FLJ20212), mRNA
7285	20377	33834	2.69	1.0E-62	AA722878.1	EST_HUMAN	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
7295	20377	33835	2.69	1.0E-62	AA722878.1	EST_HUMAN	af05c02.s1 Stratiagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:839906 3'
8957	22036	35577	0.54	1.0E-62	AA280050.1	EST_HUMAN	z889f10.s1 Soares_fetal_heart_NHHP19W Homo sapiens cDNA clone IMAGE:409771 3'
9258	22335	35885	1.65	1.0E-62	7662289	NT	z889f10.s1 Soares_fetal_heart_NHHP19W Homo sapiens cDNA clone IMAGE:409771 3'
9258	22335	35886	1.65	1.0E-62	7662289	NT	z889e07.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:705080 5'
9302	22378	35928	1.92	1.0E-62	X15533.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9302	22378	35929	1.92	1.0E-62	X15533.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
0757	22595	36263	3.03	1.0E-62	AA465170.1	EST_HUMAN	Homo sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
							H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
							aa33d06.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 3'

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11648	24727	38419	2.28	1.0E-62	Z76598.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA14D8
12809	25540		4.63	1.0E-62	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
13042	25884	31962	3.15	1.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
348	13559	26887	2.27	9.0E-63	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-005 ST0234 Homo sapiens cDNA
2421	15550		2.17	9.0E-63	C18159.1	EST_HUMAN	C18159 Human placenta cDNA (Tfujihara) Homo sapiens cDNA clone GEN-558C10 5'
4152	17304	30287	8.77	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4152	17304	30298	8.77	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
5388	18484	38824	4.69	9.0E-63	11418185	NT	Homo sapiens acetylase 2, mitochondrial (AC02), mRNA
5582	18777	31822	1.44	9.0E-63	Y15056.1	NT	Homo sapiens mRNA for PKB kinase
7332	20413	33875	3.78	9.0E-63	11426985	NT	Homo sapiens nucleoporin 88KD (NUP88), mRNA
8098	21059	34571	1.77	9.0E-63	4885544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3), mRNA
8521	21802	35139	1.18	9.0E-63	11421160	NT	Homo sapiens Ras association (RalGDS/AF-6) domain family 2 (RASSF2), mRNA
11298	24362	38003	1.3	9.0E-63	BF203406.1	EST_HUMAN	601865828FT NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4098487 5'
2420	15549	28677					Homo sapiens monoamine oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA
2448	15574	28703	2.58	8.0E-63	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3550	18715	29727	4.26	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2), mRNA, complete cds
3550	18715	29728	4.26	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2), mRNA, complete cds
4381	17524	30505	4.36	8.0E-63	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
982	14125		3.38	7.0E-63	AI872137.1	EST_HUMAN	wm55g11.1x1 NCI_CGAP_U2 Homo sapiens cDNA clone IMAGE:2439908 3'
5455	18655						nc33102.1 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:745947 similar to gb:Y00361 60S
9075	22154	35688	70.59	6.0E-63	AA420803.1	EST_HUMAN	RIBOSOMAL PROTEIN (HUMAN);
3398	16568	28584	0.82	5.0E-63	11526484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
3910	17069	30066	0.88	4.0E-63	AL163276.2	NT	Homo sapiens chromosome 21 segment HS21C078
3910	17069	30067	1.06	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6575	19737	33118	1.06	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6575	19737	33117	2.6	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA
6575	19737	33117	2.6	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA
11397	24458	38121	2.02	4.0E-63	AW134709.1	EST_HUMAN	UI-H-B11-abq-a-02-0-UI.81 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
11397	24458	38122	2.02	4.0E-63	AW134709.1	EST_HUMAN	UI-H-B11-abq-a-02-0-UI.81 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
1989	15131	28235	15.19	3.0E-63	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
2840	15954	29061	1.49	3.0E-63	J00310.1	NT	Human Met-RNA-1 gene 1
2882	14425	27493	11.84	3.0E-63	6005963	NT	Homo sapiens zinc finger protein 144 (ZNF144), mRNA
6803	19763	33151	33.93	3.0E-63	11545810	NT	Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC63928), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9907	22947	36533	0.83	3.0E-63	BE976158.1	EST_HUMAN	601485556F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
9907	22947	36534	0.83	3.0E-63	BE976158.1	EST_HUMAN	601485556F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5'
196	13419	26449	1.69	2.0E-63	U07804.1	NT	Human DNA topoisomerase I mRNA, partial cds
203	13426	28457	1.65	2.0E-63	4885228	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
510	13704		1.19	2.0E-63	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72 kD) (GLCLC)
849	14027	27087	3.07	2.0E-63	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
1587	14760	27834	1.54	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1597	14760	27835	1.54	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1806	14656	28049	2.02	2.0E-63	BE410739.1	EST_HUMAN	601301627F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3886103 5'
2146	15282	28407	1.05	2.0E-63	AI663961.1	EST_HUMAN	w54b02.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406603 3' similar to gb:M57609 GLI3 PROTEIN (HUMAN);
3225	16399	29411	1.94	2.0E-63	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3357	16529	29544	2.4	2.0E-63	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
4014	17171	30179	3.19	2.0E-63	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4988	18117	31096	1.28	2.0E-63	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5376	25802	31447	0.95	2.0E-63	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
6005	19190	32509	2.41	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
6005	19190	32510	2.41	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
6315	18487	32842	1.07	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6315	19487	32843	1.07	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
8841	19994	33403	1.43	2.0E-63	U66059.1	NT	Human gameline T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV6S1A1T, TCRBV7S1A1N2T, TCRBV5S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV6S2A2PT, TCRBV7S2A1N4T, TCRBV13S9/13S>
8887	20039	33448	0.72	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
8887	20039	33449	0.72	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
7222	20086	33502	1.72	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7222	20086	33503	1.72	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7957	21007	34517	0.98	2.0E-63	AB046944.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
8730	21810	35346	4.29	2.0E-63	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9254	22331	35879	0.94	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
9254	22331	35880	0.94	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
10143	23181	36776	1.2	2.0E-63	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10885	24084	37699	10.73	2.0E-63	N78945.1	EST_HUMAN	z018005.51 Soares_Tetralung_NbHL19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:U7208.40S RIBOSOMAL PROTEIN S4 (HUMAN);
11012	24091	37728	2.89	2.0E-63	AF099810.1	NT	Homo sapiens neuritin III-alpha gene, partial cds
11012	24091	37729	2.89	2.0E-63	AF099810.1	NT	Homo sapiens neuritin III-alpha gene, partial cds
12380	25929	31759	3.84	2.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
13101	25717	31940	1.19	2.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
13172	25760	31930	1.37	2.0E-63	AB011369.1	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1I subunit (CACNA1I), mRNA
786	13965	27019	1.55	1.0E-63	7106448	NT	Homo sapiens gene for AF-6, complete cds
786	13965	27017	1.55	1.0E-63	7106448	NT	Homo sapiens gene for AF-6, complete cds
4461	17601	30579	3.31	1.0E-63	F08485.1	EST_HUMAN	Mus musculus wingless-related MMTV integration site 3A (Wnt3a), mRNA
4461	17601	30580	3.31	1.0E-63	F08485.1	EST_HUMAN	Mus musculus wingless-related MMTV integration site 3A (Wnt3a), mRNA
5468	18688	31647	1.73	1.0E-63	AJ271738.1	NT	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
5890	19078	32388	1.38	1.0E-63	AW562266.1	EST_HUMAN	Homo sapiens Xq pseudautosomal region, segment 2/2
6521	19885	33058	0.88	1.0E-63	AW451950.1	EST_HUMAN	QVQ-ST0215-060100-083-009 ST0215 Homo sapiens cDNA
6521	19885	33058	0.88	1.0E-63	AW451950.1	EST_HUMAN	U1H-B13-alt-h-02-Q-U1st NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
6521	19886	33059	0.88	1.0E-63	AW451950.1	EST_HUMAN	U1H-B13-alt-h-02-Q-U1st NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
8668	21748		2.97	1.0E-63	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
13121	28047		8.88	1.0E-63	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
6089	19270	32598	0.81	9.0E-64	AW401433.1	EST_HUMAN	U1H-BK0-aad-b-09-0-U1r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3053153 5'
8051	21134	34684	5.57	9.0E-64	A1478186.1	EST_HUMAN	U1H-BK0-aad-b-09-0-U1r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3053153 5'
1071	14237		3.46	8.0E-64	BE280786.1	EST_HUMAN	U1H-BK0-aad-b-09-0-U1r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:2161625 3'
6268	19442	32781	3.51	8.0E-64	BE885755.1	EST_HUMAN	U1H-BK0-aad-b-09-0-U1r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:319039 5'
12187	25146		2.79	8.0E-64	11418177	NT	U1H-BK0-aad-b-09-0-U1r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3910338 5'
12243	25185		3.88	8.0E-64	T80851.1	EST_HUMAN	Homo sapiens Rant GTPase activating protein 1 (RANGAP1), mRNA
3818	18782		0.74	7.0E-64	BE394321.1	EST_HUMAN	y98802.r1 Stragene lung (8937210) Homo sapiens cDNA clone IMAGE:78178 5'
4854	17987	30974	6.34	7.0E-64	4507490	NT	601311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3633204 5'
4854	17987	30975	6.34	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOPT) mRNA
10239	23274	36895	2.62	7.0E-64	Y07848.1	NT	Homo sapiens thimet oligopeptidase 1 (THOPT) mRNA
1760	14909	28002	5.73	6.0E-64	A1651992.1	EST_HUMAN	Homo sapiens EWS, gar22, np22 and bam22 genes
1760	14909	28003	5.73	6.0E-64	A1651992.1	EST_HUMAN	W51607.x1 NCI CGAP GC8 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
1760	14909	28003	5.73	6.0E-64	A1651992.1	EST_HUMAN	W51607.x1 NCI CGAP GC8 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3192	16367	29372	3.91	6.0E-64	AW026445.1	EST_HUMAN	wv13e03.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
3192	16367	29373	3.91	6.0E-64	AW026445.1	EST_HUMAN	wv13e03.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
5739	18932	32230	2.95	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5739	18932	32231	2.95	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5758	18950	32252	5.32	6.0E-64	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
5767	18939	32260	0.68	6.0E-64	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
5951	19137	32452	0.74	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
5951	19137	32453	0.74	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
7384	20462	33925	2.54	6.0E-64	11528879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
7384	20462	33926	2.54	6.0E-64	11528879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
9528	22593	36164	7.39	6.0E-64	11420555	NT	Homo sapiens acetyl-CoA synthetase (LOC55902), mRNA
9708	22765	36320	1.75	6.0E-64	AF274753.1	NT	Homo sapiens progressive ankylosis-like protein (ANK), mRNA, complete cds
9919	22959	36546	2.16	6.0E-64	S76476.1	NT	tkc [human, brain, mRNA, 2715 nt]
11008	24087	37724	4.68	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
11008	24087	37725	4.68	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
11269	16367	29372	1.73	6.0E-64	AW026445.1	EST_HUMAN	wv13e03.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
11269	16367	29373	1.73	6.0E-64	AW026445.1	EST_HUMAN	wv13e03.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
12400	25280	32081	2.98	6.0E-64	11528198	NT	Homo sapiens Interleukin 10 receptor, beta (IL10RB), mRNA
843	14021	27078	4.18	6.0E-64	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
843	14021	27079	4.18	6.0E-64	AF231918.1	NT	Homo sapiens chromosome 21 unknown mRNA
1369	14524	27598	1.02	6.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1453	14608	27685	1.15	6.0E-64	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1453	14608	27686	1.15	6.0E-64	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1749	14898	27994	1.54	6.0E-64	U89358.1	NT	Human [3]mb1 protein homolog mRNA, complete cds
2887	14683	27746	4.43	6.0E-64	7662206	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
2887	14683	27747	4.43	6.0E-64	7662206	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
4068	17224	30231	7.25	6.0E-64	AF017433.1	NT	Homo sapiens pulex transcription factor CR53 (CR53) mRNA, partial cds
8000	21050	34563	0.71	4.0E-64	BE794507.1	EST_HUMAN	601500382F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944397 6'
11051	24128	37763	2.34	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
11051	24128	37764	2.34	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
2271	15404	28632	8.77	3.0E-64	C18895.1	EST_HUMAN	C18895 Human placenta cDNA (TFUJiwa) Homo sapiens cDNA clone GEN-569E02 5'
3327	16500	29518	0.82	3.0E-64	BE794391.1	EST_HUMAN	601589566F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 6'
3529	16694	29704	1.83	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3529	16694	29705	1.83	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
6206	19381	32731	1.31	3.0E-64	Z26273.1	NT	H sapiens isoform 1 gene for L-type calcium channel, exon 28
6471	19638	32997	0.88	3.0E-64	AW500851.1	EST_HUMAN	UHF-BPp-ax-c-06-Q.U1.1 NIH_MGC 5T Homo sapiens cDNA clone IMAGE:3073161 5'
6622	19782	33170	3.2	3.0E-64	BF370000.1	EST_HUMAN	RC6-FN0019-280600-011-G11 FN0019 Homo sapiens cDNA
8661	21741	35281	1.86	3.0E-64	AF248953.1	NT	Homo sapiens gplg1 matrix protein GM130 (GOLGA2) mRNA, complete cds
8661	21741	35282	1.86	3.0E-64	AF248953.1	NT	Homo sapiens gplg1 matrix protein GM130 (GOLGA2) mRNA, complete cds
8692	21772	35303	1.48	3.0E-64	BE206621.1	EST_HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047875 5' similar to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
8692	21772	35304	1.48	3.0E-64	BE206621.1	EST_HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047875 5' similar to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
8827	22682	36251	1.12	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
8827	22682	36252	1.12	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9714	22779	36349	0.86	3.0E-64	AW977384.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
9714	22779	36350	0.86	3.0E-64	AW977384.1	EST_HUMAN	EST388483 MAGC resequences, MAGO Homo sapiens cDNA
11614	24571	38248	1.54	3.0E-64	AL163246.2	NT	EST388483 MAGC resequences, MAGO Homo sapiens cDNA
11614	24571	38249	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
11980	24976	38670	2.16	3.0E-64	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
1112	14277	27334	1.1	2.0E-64	AA009940.1	EST_HUMAN	af09d08.s1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:1031151 3'
1428	14882	27655	3.2	2.0E-64	4757701	NT	Homo sapiens eIF4E-like cap-binding protein (4EHP) mRNA
2592	15717		1.28	2.0E-64	AI627030.1	EST_HUMAN	ws87b01.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contains element L1 repetitive element;
2597	15721	28840	2.4	2.0E-64	AL163245.2	NT	Homo sapiens chromosome 21 segment HS21C046
2597	15721	28841	2.4	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
3887	17046	30046	0.98	2.0E-64	AW068145.1	EST_HUMAN	EST370215 MAGC resequences, MAGO Homo sapiens cDNA
3887	17046	30046	0.98	2.0E-64	AW068145.1	EST_HUMAN	EST370215 MAGC resequences, MAGO Homo sapiens cDNA
6129	19308	32649	2.28	2.0E-64	AU124387.1	EST_HUMAN	AU124387 NT2RM2 Homo sapiens cDNA clone NT2RM2002113 5'
6372	19541	32900	1.23	2.0E-64	AF13708.1	NT	Homo sapiens angiotensin II (ANGII) mRNA, partial cds
6614	19774	33185	5.04	2.0E-64	BF686537.1	EST_HUMAN	602123474F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4280395 5'
6724	19881	33272	1.3	2.0E-64	A078387.1	EST_HUMAN	602123474F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4280395 5'
8840	19993	33402	2.88	2.0E-64	M77185.1	NT	H sapiens dopamine receptor D6 pseudogene 1, partial cds
7980	21040	34552	0.87	2.0E-64	11431054	NT	Homo sapiens ataxin 2-binding protein 1 (ABP1), mRNA
8868	21947	35480	1.08	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
8868	21947	35481	1.08	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
9431	22505	36071	1.09	2.0E-64	AU132570.1	EST_HUMAN	AU132570 NT2RP4 Homo sapiens cDNA clone NT2RP4000109 5'

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Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10184	23221	36815	0.5	2.0E-64	T06397.1	EST_HUMAN	EST04286 Fetal brain, Striatum (cat#836206) Homo sapiens cDNA clone HFBDS88
10184	23221	36816	0.5	2.0E-64	T06397.1	EST_HUMAN	EST04286 Fetal brain, Striatum (cat#836206) Homo sapiens cDNA clone HFBDS88
11000	24079	37714	2.21	2.0E-64	BF52814.1	EST_HUMAN	602042882F1 NCI_CGAP_Binf7 Homo sapiens cDNA clone IMAGE:4180556 5'
11306	24371	38012	4.28	2.0E-64	A1922911.1	EST_HUMAN	wn81b06.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
11306	24371	38013	4.28	2.0E-64	A1922911.1	EST_HUMAN	wn81b06.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
11509	24567	38244	1.46	2.0E-64	AW864773.1	EST_HUMAN	PM2-SN0018-220300-002-er12 SN0018 Homo sapiens cDNA
12804	25537		3.59	2.0E-64	H55162.1	EST_HUMAN	CHR220101 Chromosome 22 exon Homo sapiens cDNA clone C22_132 5'
268	13487	26517	1.39	1.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1820	14969	28061	24.22	1.0E-64	A1929419.1	EST_HUMAN	au06c01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to gb:121996 cds1 PROTHYMOSIN ALPHA (HUMAN); contains element MSR1 repetitive element;
3076	18252	29274	0.8	1.0E-64	4507394	NT	Homo sapiens synaptobiotin 1 (SYN1), mRNA
3601	18765	29781				NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a2
3675	16838	29848	5.47	1.0E-64	AF195779.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3675	16838	29849	1.14	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
4008	17165	30173	0.98	1.0E-64	8922829	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
10269	23304	36901	1.17	1.0E-64	AA042875.1	EST_HUMAN	zk53108.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486567 3'
12291	25216		4.56	1.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2350	15481	28613	1.87	9.0E-65	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
2350	15481	28614	1.87	9.0E-65	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
11826	24815		19.08	9.0E-65	BF330676.1	EST_HUMAN	QV4-BT0257-081169-017-e03 BT0257 Homo sapiens cDNA
11799	24789	38486	7.24	8.0E-65	A1929244.1	EST_HUMAN	au58h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005 3' similar to SW-RL21_HUMAN P46778 60S RIBOSOMAL PROTEIN L21.;
10358	23393	37004	2.16	7.0E-65	BE081663.1	EST_HUMAN	QV2-BT0635-240400-162-c02 BT0635 Homo sapiens cDNA
12095	26075	38782	2.88	7.0E-65	Z21378.1	EST_HUMAN	HSAAAEAWO TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam test346 (b)
1081	14247	27304	0.81	6.0E-68	AV721898.1	EST_HUMAN	AV721898 HTB Homo sapiens cDNA clone HTBBZC06 5'
1974	15117		20.04	6.0E-65	AA550929.1	EST_HUMAN	n186d10.s1 NCI_CGAP_P111 Homo sapiens cDNA clone IMAGE:989379 similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);
6899	19857	33247	0.8	6.0E-65	AA503892.1	EST_HUMAN	ms37b07.s1 NCI_CGAP_P15 Homo sapiens cDNA clone IMAGE:964817
8945	22024	35564	2.45	6.0E-65	AW083252.1	EST_HUMAN	xc07b09.x1 NCI_CGAP_C021 Homo sapiens cDNA clone IMAGE:2593545 3' similar to TR:Q63306 Q63306 LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORFS.; contains L1.b2 L1 repetitive element;
9213	22291	35833	4.63	6.0E-65	AA427878.1	EST_HUMAN	zw63b06.s1 Soares_total_fetus_Nb2HF8_gw Homo sapiens cDNA clone IMAGE:773747 3'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9213	22291	35834	4.63	6.0E-65	AA427878.1	EST_HUMAN	zw53b06.s1 Soares_tetal_tetus_Nb2HF8_gw Homo sapiens cDNA clone IMAGE:773747 3'
9275	22351	35902	0.62	6.0E-65	A085314.1	EST_HUMAN	qf18n05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425 3'
9276	22351	35903	0.62	6.0E-65	A085314.1	EST_HUMAN	qf18n05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425 3'
11113	24185	37817	3.68	6.0E-65	BE567816.1	EST_HUMAN	601340485F1 NIH_MGC_63 Homo sapiens cDNA clone IMAGE:3682677 5'
11294	24360	38001	4.18	6.0E-65	BF340825.1	EST_HUMAN	602037721F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4186677 5'
11768	24778	39475	1.89	6.0E-65	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
648	13633	26859	1.88	5.0E-65	AF084604.1	NT	Homo sapiens KIA03 protein mRNA, partial cds
1384	14339	27813	1.92	5.0E-65	7601851	NT	Homo sapiens KIA0156 gene product (KIAA0156), mRNA
1384	14639	27614	1.92	5.0E-65	7601851	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
2223	15357	28487	1.07	5.0E-65	AB033758.1	NT	Homo sapiens hPAD-cdny10 mRNA for peptidylarginine deaminase type 1, complete cds
3328	16501	29519	1.79	6.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3328	16501	29520	1.79	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
7009	20144	33583	1.38	5.0E-65	4504609	NT	Homo sapiens Interferon-related developmental regulator 1 (IFRD1), mRNA
10884	23718	37324	1.36	5.0E-65	AF009668.1	NT	Multiple sclerosis associated retrovirus polyprotein (pcp) mRNA, partial cds
198	13421	26452	1.3	4.0E-65	AL120419.1	EST_HUMAN	DKFZp761G108.t1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
764	13945	26991	1.23	4.0E-65	AI268468.1	EST_HUMAN	qm49e01.x1 Soares_placenta_8to9weeks_2NHP8to9w Homo sapiens cDNA clone IMAGE:1891800 3'
764	13945	26992	1.23	4.0E-65	AI268468.1	EST_HUMAN	qm49e01.x1 Soares_placenta_8to9weeks_2NHP8to9w Homo sapiens cDNA clone IMAGE:1891800 3'
1103	14269	27326	1.44	4.0E-65	4826736	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1515	14669	27751	24.91	4.0E-65	4506568	NT	Homo sapiens ribosomal protein L34 (RPL34) mRNA
2413	16543	28671	1.02	4.0E-65	BE221489.1	EST_HUMAN	hu25e04.x1 NCL_CGAP_Mel16 Homo sapiens cDNA clone IMAGE:3171102 3'
2413	16543	28671	1.02	4.0E-65	BE221489.1	EST_HUMAN	hu25e04.x1 NCL_CGAP_Mel16 Homo sapiens cDNA clone IMAGE:3171102 3'
6284	19457	32807	4.96	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
6284	19457	32808	4.96	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
7233	20317	33780	0.66	4.0E-65	AY008372.1	NT	Homo sapiens oxyluciferin binding protein-related protein 3 (ORP3) mRNA, complete cds
7266	20349	33801	6.04	4.0E-65	M19879.1	NT	Human clabindin 27 gene, exons 10 and 11, and L1 and Alu repeats
7368	20447	33910	2.3	4.0E-65	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7721	20765	34273	0.65	4.0E-65	U40372.1	NT	Human 3'5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7721	20765	34274	0.65	4.0E-65	U40372.1	NT	Human 3'5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7993	21043	34535	0.67	4.0E-65	U39656.1	NT	Human MAP kinase 6 (MKK6) mRNA, complete cds
8025	21108	34624	0.63	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
8025	21108	34625	0.63	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
8348	22422	35975	0.88	4.0E-65	11426127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10808	23841		2.12	4.0E-65	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
11360	24422	38078	1.92	4.0E-65	AF119846.1	NT	Homo sapiens PRO1474 mRNA, complete cds
12828	14268	27326	2.03	4.0E-65	4828735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
13201	13421	28452	1.26	4.0E-65	AL120419.1	EST_HUMAN	DKFZp761G108_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
100	13336	28364	0.85	3.0E-65	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1260	15980		18.37	3.0E-65	X78932.1	NT	H. sapiens HZF9 mRNA for zinc finger protein
1589	14741	27822	4.52	3.0E-65	4504626	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1868	16014	28122	1.31	3.0E-65	AI000892.1	EST_HUMAN	o123f03.s1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
3350	16522	28538	1.24	3.0E-65	4504950	NT	MSR1 repetitive element
3815	16075	29978	1.08	3.0E-65	AI000692.1	EST_HUMAN	o123f03.s1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
4773	17908	30891	1.38	3.0E-65	6912385	NT	MSR1 repetitive element
10274	23309	36905	1.81	3.0E-65	BE787366.1	EST_HUMAN	Homo sapiens rab6 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA
11872	23900	37523	8.41	3.0E-65	AA430006.1	EST_HUMAN	601479886F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882405 5'
3490	16857	28670	7.53	2.0E-65	BF690294.1	EST_HUMAN	zw65a06.r1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE:781042 5'
6666	19825		3.73	2.0E-65	BE263373.1	EST_HUMAN	602156062F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4286966 5'
7282	20365	33818	20.62	2.0E-65	BF576922.1	EST_HUMAN	601190883F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3334741 5'
9046	22125	35688	1.2	2.0E-65	AK024463.1	NT	602134359F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289285 5'
9046	22125	35689	1.2	2.0E-65	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
10892	23976	37608	1.46	2.0E-65	11419247	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
12241	25184		6.27	2.0E-65	AA307804.1	EST_HUMAN	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA
12748	28906		3.96	2.0E-65	BF246086.1	EST_HUMAN	EST178785 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to similar to endogenous retrovirus
93	13328		0.69	1.0E-65	BF126544.1	EST_HUMAN	601854033F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073769 5'
552	13745	26770	1.43	1.0E-65	7657495	NT	601763489F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026501 5'
1889	15033	28141	3.31	1.0E-65	AB026898.1	NT	Homo sapiens putative Rab5 GTP/GTP exchange factor homologue (RABEX6), mRNA
2098	18238	28350	1.48	1.0E-65	AB040946.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
3458	16625	28645	0.8	1.0E-65	BE466881.1	EST_HUMAN	Homo sapiens mRNA for KIAA1513 protein, partial cds
4105	17259	30259	2.07	1.0E-65	4504082	NT	h224a09.x1 NCI CGAP_G06 Homo sapiens cDNA clone IMAGE:3208888 3'
							Homo sapiens glypican 4 (GPC4) mRNA

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4105	17259	30260	2.07	1.0E-65	4504082	NT	Homo sapiens glypican 4 (GPC4) mRNA
4323	17466	30451	2.53	1.0E-65	AW028340.1	EST_HUMAN	wx08c09.x1 NCI CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
4323	17468	30462	2.53	1.0E-65	AW028340.1	EST_HUMAN	wx08c09.x1 NCI CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
5143	18266	31235	1.57	1.0E-65	AW238282.1	EST_HUMAN	xp20c01.x1 NCI CGAP_HN10 Homo sapiens cDNA clone IMAGE:2740886 3'
5143	18268	31236	1.57	1.0E-65	AW238282.1	EST_HUMAN	xp20c01.x1 NCI CGAP_HN10 Homo sapiens cDNA clone IMAGE:2740886 3'
5400	18602	31572	0.86	1.0E-65	BE089509.1	EST_HUMAN	QV0-BT0702-170400-184409 BT0702 Homo sapiens cDNA
5400	18602	31573	0.86	1.0E-65	BE089509.1	EST_HUMAN	QV0-BT0702-170400-184409 BT0702 Homo sapiens cDNA
5594	18789	31837	0.58	1.0E-65	AI243738.1	EST_HUMAN	qh88h07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854108 3' similar to TR:Q07823
8448	21528	35057	1.5	1.0E-65	AW620481.1	EST_HUMAN	Q07823 MAC30 PROTEIN ;
8448	21528	35058	1.5	1.0E-65	AW620481.1	EST_HUMAN	QV2-ST0298-140200-042-112 ST0298 Homo sapiens cDNA
8475	21566	35088	0.66	1.0E-65	BE732118.1	EST_HUMAN	QV2-ST0298-140200-042-112 ST0298 Homo sapiens cDNA
8475	21566	35089	0.66	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8514	21595	35129	2.04	1.0E-65	AU141295.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8514	21595	35129	2.04	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYRO1 Homo sapiens cDNA clone THYRO1000356 5'
8514	21595	35130	2.04	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYRO1 Homo sapiens cDNA clone THYRO1000356 5'
9041	22120	35662	1.01	1.0E-65	BF688707.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone IMAGE:4283313 5'
9222	22300	35843	1.33	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
9222	22300	35844	1.33	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
9231	22308		2.78	1.0E-65	11431804	NT	Homo sapiens Insdcl1 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
9309	22385	35937	0.55	1.0E-65	7682227	NT	Homo sapiens KIAA0656 gene product (KIAA0656), mRNA
9678	22840	36210	5.5	1.0E-65	AI191716.1	EST_HUMAN	q356a02.x1 Soares_Tesfye_NHT Homo sapiens cDNA clone IMAGE:1733450 3' similar to gb:M28991 ZINC
10089	23127	36730	1.32	1.0E-65	AU153793.1	EST_HUMAN	FINGER PROTEIN 8 (HUMAN) contains MER19.11 MER19 repetitive element ;
10509	23544	37155	0.65	1.0E-65	AA069569.1	EST_HUMAN	AU153793 NT2RP3 Homo sapiens cDNA clone NT2RP3004016 3'
10796	23829	37453	1.23	1.0E-65	AB037632.1	NT	z75a04.1 Soares_pinea_gland_N3HPG Homo sapiens cDNA clone IMAGE:382734 5'
10886	23989	37589	1.91	1.0E-65	M26167.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
11016	24095	37734	9.39	1.0E-65	4506680	NT	Human platelet factor 4 variation 1 (PF4var1) gene, complete cds
11385	24456	38118	1.9	1.0E-65	BF688707.1	EST_HUMAN	Homo sapiens ribosomal protein L7a (RPL7A) mRNA
11466	24546	38217	2.58	1.0E-65	AI62107.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
12292	25217		2.38	1.0E-65	11418041	NT	ts78a06.x1 NCI CGAP_GCS Homo sapiens cDNA clone IMAGE:2237170 3' similar to gb:L15533_ma1
12391	25276	32078	3.77	1.0E-65	11418323	NT	PANCREATITIS ASSOCIATED PROTEIN 1 PRECURSOR (HUMAN);
73	13310	26334	0.9	9.0E-68	AL160311.1	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
73	13310	26335	0.9	9.0E-68	AL160311.1	NT	Novel human gene mapping to chromosome 22
73	13310	26335	0.9	9.0E-68	AL160311.1	NT	Novel human gene mapping to chromosome 22

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1385	14540	27815	1.53	9.0E-66	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1385	14540	27616	1.53	9.0E-66	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1513	14666		5.93	9.0E-66	M87289.1	NT	Human transposon-like element, partial
4007	17164	30171	0.86	9.0E-66	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4007	17164	30172	0.86	9.0E-66	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
11628	24708		1.5	7.0E-66	BE084410.1	EST_HUMAN	RC4-BT0311-141198-011-06 BT0311 Homo sapiens cDNA
4485	17625	30605	1.16	8.0E-66	A024553.1	EST_HUMAN	W57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9.4A
4485	17625	30606	1.16	8.0E-66	A024553.1	EST_HUMAN	W57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9.4A
4485	17625	30607	1.16	8.0E-66	A024553.1	EST_HUMAN	W57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9.4A
8629	21709		0.46	6.0E-66	BE178663.1	EST_HUMAN	CE18595 ;
11427	24488	38152	3.22	6.0E-66	X69181.1	NT	PM2-HT0604-030300-001-b06 HT0604 Homo sapiens cDNA
1398	14552	27827	2.45	5.0E-66	BE084410.1	EST_HUMAN	H. sapiens mRNA for ribosomal protein L31
9404	22561	38113	8.4	5.0E-66	11420557	NT	RC4-BT0311-141198-011-06 BT0311 Homo sapiens cDNA
813	13992	27046	1.8	4.0E-66	6678816	NT	Homo sapiens thyroid hormone receptor binding protein (AIB3), mRNA
1775	14924	28018	0.97	4.0E-66	AW897798.1	EST_HUMAN	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
2355	15486	28618	5.3	4.0E-66	X69211.1	NT	RC1-NN0063-100500-022-402 NN0063 Homo sapiens cDNA
2543	15688		3.15	4.0E-66	AJ223364.1	NT	H. sapiens DNA for endogenous retroviral like element
4805	18035		5.02	4.0E-66	9635487	NT	Homo sapiens germ-line DNA upstream of Jkappa locus
9668	18892	32147	3.57	4.0E-66	11428643	NT	Human endogenous retrovirus, complete genome
5861	19051	32358	0.87	4.0E-66	AW839119.1	EST_HUMAN	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
6995	18514	31506	4.91	4.0E-66	AW965473.1	EST_HUMAN	QV1-DT0068-110200-067-g10 DT0068 Homo sapiens cDNA
7281	20384	33817	7.88	4.0E-66	U78168.1	NT	EST377646 IMAGE resequences, MAGI Homo sapiens cDNA
7807	18862	32147	0.83	4.0E-66	11428643	NT	Homo sapiens cAMP-regulated guanine nucleotide exchange factor 1 (cAMP-GEF1) mRNA, complete cds
8269	21351	34867	6.14	4.0E-66	11421638	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA
8327	21409	34936	0.7	4.0E-66	X57147.1	NT	Homo sapiens hypothetical protein FLJ20116 (FLJ20116), mRNA
10898	23980	37612	1.49	4.0E-66	BF507493.1	EST_HUMAN	Human endogenous retrovirus pHE.1 (ERV9)
11660	24739	38430	1.63	4.0E-66	AB023215.1	NT	UI-HBW1-ami-a-10-Q-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070747 3'
							Homo sapiens mRNA for KIAA0998 protein, partial cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1458	14611	27692	14.93	3.0E-66	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
1458	14611	27693	14.93	3.0E-66	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
2039	15180	28290	1.04	3.0E-68	N55323.1	EST_HUMAN	Y27g12.1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35069 HISTONE H2B.1/H2B.2. [2] PIR:B56612;
2039	15180	28291	1.04	3.0E-68	N55323.1	EST_HUMAN	Y27g12.1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35069 HISTONE H2B.1/H2B.2. [2] PIR:B56612;
2039	15180	28292	1.04	3.0E-66	N55323.1	EST_HUMAN	Y27g12.1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35069 HISTONE H2B.1/H2B.2. [2] PIR:B56612;
2772	15887	28987	3.44	3.0E-66	11141890	NT	Y27g12.1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35069 HISTONE H2B.1/H2B.2. [2] PIR:B56612;
3186	16361	29367	7.29	3.0E-66	7682223	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
5583	18778	31823	0.85	3.0E-68	AB020690.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds
5605	18889	32180	0.65	3.0E-66	M13976.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
5653	19081	32391	1.72	3.0E-66	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5863	19081	32392	1.72	3.0E-66	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
7585	20557	34134	1.74	3.0E-66	X92211.1	NT	H. sapiens germline immunoglobulin heavy chain, variable region, (15-1)
9725	22790	36361	0.59	3.0E-68	AK024453.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
9920	22660	36547	0.52	3.0E-66	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10278	23313	36911	0.68	3.0E-68	7019480	NT	Homo sapiens protocadherin beta 1 (PCDH-beta1), mRNA
10741	23774	37386	0.93	3.0E-68	AF159699.1	NT	Homo sapiens molybdenum cofactor biosynthesis protein E (MOBPE) mRNA, complete cds
11800	24790	38487	4.55	3.0E-68	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R6A) mRNA
62	13291	26304	1.48	2.0E-66	7657334	NT	Homo sapiens Misschep/NIK-related kinase (MINK), mRNA
52	13291	26305	1.48	2.0E-66	7657334	NT	Homo sapiens Misschep/NIK-related kinase (MINK), mRNA
435	13235	26235	0.87	2.0E-66	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
435	13235	26236	0.87	2.0E-66	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
1873	15017	28126	2.02	2.0E-66	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
3039	16216	28236	1.07	2.0E-68	X66859.1	NT	H. sapiens pseudogene for the low affinity IL-6 receptor
3009	16773	29788	0.85	2.0E-66	8923280	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3661	17021	30019	0.78	2.0E-68	AL117233.1	NT	Novel human gene mapping to chromosome 1
4178	17328	30317	0.69	2.0E-68	AF108399.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4778	17913	30898	13.88	2.0E-66	AJ133287.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
4778	17913	30899	13.88	2.0E-66	AJ133287.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
5937	19123	32436	0.82	2.0E-66	AW988854.1	EST_HUMAN	EST380930 IMAGE sequences, MAGJ Homo sapiens cDNA
5937	19123	32437	0.82	2.0E-66	AW988854.1	EST_HUMAN	EST380930 IMAGE sequences, MAGJ Homo sapiens cDNA
6048	22127	35671	3.57	2.0E-66	N46480.1	EST_HUMAN	y59402.r1 Soares_multiple_sclerosis_2NblMSP Homo sapiens cDNA clone IMAGE:277826 5'
12837	28147		2.84	2.0E-66	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
1717	14867		1.14	1.0E-66	BE887173.1	EST_HUMAN	601508376F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3608931 5'
2959	16138	28153	1.47	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
2959	16138	28154	1.47	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4504	18138	28153	4.18	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4504	18138	28154	4.18	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
5497	18698	31712	5.97	1.0E-66	BF673088.1	EST_HUMAN	602152996F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294151 5'
5900	19089	32402	0.67	1.0E-66	BE768232.1	EST_HUMAN	IL2NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
5900	19089	32403	0.67	1.0E-66	BE768232.1	EST_HUMAN	IL2NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
7078	20131	33548	1.53	1.0E-66	BF328623.1	EST_HUMAN	RC5-BN0193-010900-034-G08 BN0193 Homo sapiens cDNA
8652	21732	35271	1.2	1.0E-66	AA668958.1	EST_HUMAN	aa60504.s1 NCJ_CGAP_GC81 Homo sapiens cDNA clone IMAGE:827262 3'
9826	22681	36250	0.84	1.0E-66	AA018828.1	EST_HUMAN	z657612.r1 Soares_telina N2b4HR Homo sapiens cDNA clone IMAGE:383118 5'
10582	23617	37223	0.93	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10582	23617	37224	0.93	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
11185	24254	37889	2.24	1.0E-66	AF11187.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
12398	25278		1.92	9.0E-67	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
6034	18162		0.91	8.0E-67	M78158.1	EST_HUMAN	EST01750 Subtracted Hippocampus, Striatum (cat. #336205) Homo sapiens cDNA clone HHCPN31 similar to L1 repetitive element
391	13628	26665	1.63	7.0E-67	AW162232.1	EST_HUMAN	au75602.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
1413	14567	27641	2.66	7.0E-67	AA383416.1	EST_HUMAN	EST98812 Testis 1 Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical protein, cosmid ZK353
1695	14737	27817	1.39	7.0E-67	W85947.1	EST_HUMAN	zf56805.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
1595	14737	27818	1.39	7.0E-67	W85947.1	EST_HUMAN	zf56805.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2089	15229	28350	1.94	7.0E-67	7657243	NT	Homo sapiens Inositol 1,3,4-trisphosphate 5/6 kinase (ITPK1), mRNA
2089	15229	28351	1.94	7.0E-67	7657243	NT	Homo sapiens Inositol 1,3,4-trisphosphate 5/6 kinase (ITPK1), mRNA
2871	13628	26665	1.36	7.0E-67	AW162232.1	EST_HUMAN	au75602.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6205	19380	32730	0.98	7.0E-67	10190695	NT	Homo sapiens zinc finger protein 304 (ZNF304), mRNA
6400	19569	32930	1.67	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6400	19569	32931	1.67	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6883	20016	33425	1.12	7.0E-67	4885084	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD) (ATP9A1A), mRNA
7809	20884	34358	0.99	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
7809	20884	34359	0.99	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8268	21340	34857	0.52	7.0E-67	4828895	NT	Homo sapiens phosphodiesterase 1/nucleotide pyrophosphatase 3 (PDNRP3) mRNA
8518	21599	35134	0.7	7.0E-67	4527732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9132	22211	35756	0.68	7.0E-67	10835044	NT	Homo sapiens retinaldehyde dehydrogenase 2 (RALDH2), mRNA
11566	24620		2.42	7.0E-67	11434579	NT	Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), mRNA
11973	24958	38660	2.02	7.0E-67	U82485.1	NT	Human cytochrome oxidase subunit VIa (COX6A1P) pseudogene, complete cds
12168	25131	38829	4.05	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12168	25131	38830	4.05	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12664	25441	32053	1.92	7.0E-67	AB011399.1	NT	Homo sapiens gene for A/F-8, complete cds
13108	26721		1.74	7.0E-67	11421527	NT	Homo sapiens calcium channel, voltage-dependent, alpha 2/delta subunit 1 (CACNA2D1), mRNA
673	13765	26788	1.09	6.0E-67	X68968.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
818	13987	27051	2.4	6.0E-67	Z17227.1	NT	Homo sapiens PMP89 gene, exons 3, 4, 5 & 7
1302	14456	27524	1.07	6.0E-67	V14320.1	NT	Homo sapiens mRNA for transmembrane receptor protein
3237	16411	29426	1.39	6.0E-67	4508434	NT	Homo sapiens reelinoblastoma 1 (including osteosarcoma) (RB1) mRNA
3524	16689	28668	1.32	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
3524	16689	28669	1.32	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
4243	17389	30375	0.92	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4243	17389	30376	0.92	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4827	17680	30947	2.22	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4827	17680	30948	2.22	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
13224	13795	26788	2.74	6.0E-67	X68968.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
3293	16487	29486	2.26	5.0E-67	AF009860.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
11230	24299		2.17	5.0E-67	BE010038.1	EST_HUMAN	PN3-BND176-100400-001-g04 BND176 Homo sapiens cDNA
1359	14514	27568	1.13	4.0E-67	RG0819.1	EST_HUMAN	yn02d11.1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:167253 5'
8211	21293	34813	0.8	4.0E-67	AI733032.1	EST_HUMAN	q26c08.x5 NCL CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1483288 3' similar to SW:Z33A_HUMAN
8576	21697		1.48	4.0E-67	BF357321.1	EST_HUMAN	Q06730 ZINC FINGER PROTEIN 33A ;
							RCO-HT0694-150900-026-c03 HT0694 Homo sapiens cDNA

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Single Exon Probes Expressed in Placenta

Probe Seq ID NO:	Exon Seq ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11318	24381		1.76	4.0E-67	AA714284.1	EST_HUMAN	nv06a01.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238472 3' similar to TR:O10385 O10385
2874	13835	26862	2.03	3.0E-67	AA333768.1	EST_HUMAN	PRO-POL-DUTPASE POLYPROTEIN ;
3542	16707	29718	2.05	3.0E-67	BE064410.1	EST_HUMAN	EST37903 Embryo, 9 week Homo sapiens cDNA 5' end
4816	17949	30934	2.96	3.0E-67	AW669159.1	EST_HUMAN	RC4-BT0311-141189-011-H06 BT0311 Homo sapiens cDNA
4846	17978		1.38	3.0E-67	AL163279.2	NT	MR3-SN0066-040500-008-01 SN0066 Homo sapiens cDNA
							Homo sapiens chromosome 21 segment HS21C079
8376	21456	34980	1.37	3.0E-67	BF196088.1	EST_HUMAN	h81f05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
11837	24593		15.42	3.0E-67	AA927874.1	EST_HUMAN	Q87085 GTP-RHO BINDING PROTEIN 1 ;
193	13416	26445	0.59	2.0E-67	BE348354.1	EST_HUMAN	cm18b07.s1 Scores_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1541365 3'
868	14044	27109	5.28	2.0E-67	AW816405.1	EST_HUMAN	hw16q09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183136 3' similar to WP:F23H11.9
1129	14294		2.48	2.0E-67	AF167460.1	NT	CE08617 ;
1933	15076	26179	1.23	2.0E-67	BE303037.1	EST_HUMAN	QV4-ST0234-181199-037-05 ST0234 Homo sapiens cDNA
1933	15076	26180	1.23	2.0E-67	BE303037.1	EST_HUMAN	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a, 2, 3, and 4
2468	15685	28713	1.18	2.0E-67	AF309581.1	NT	KIAA0798 PROTEIN ;
2502	15629	28749	1.37	2.0E-67	4758795	NT	Homo sapiens KRAAB zinc finger protein ZFQR mRNA, complete cds
3557	16722	29737	3.76	2.0E-67	AA625755.1	EST_HUMAN	Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
4109	17263	30263	3.13	2.0E-67	AL169300.2	NT	zu91g01.s1 Scores_Tests_NHT Homo sapiens cDNA clone IMAGE:745392 3'
6197	18372	32723	0.83	2.0E-67	AL049784.1	NT	Homo sapiens chromosome 21 segment HS21C100
6252	18426	32772	4.95	2.0E-67	BF240758.1	EST_HUMAN	Novel human gene mapping to chromosome 13
6425	18593	32868	1.74	2.0E-67	AB051763.1	NT	601875351F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4091893 5'
6425	18593	32869	1.74	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6779	19334	33330	0.84	2.0E-67	AL120542.1	EST_HUMAN	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
8755	21834	35374	1.09	2.0E-67	AA334809.1	EST_HUMAN	DKFZp761A229.r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A229 5'
8755	21834	35375	1.09	2.0E-67	AA334809.1	EST_HUMAN	EST38860 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin
9197	22275	35812	1.31	2.0E-67	AW602835.1	EST_HUMAN	EST38860 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin
9197	22275	35813	1.31	2.0E-67	AW602835.1	EST_HUMAN	RC4-BT0568-170100-011-c07 BT0568 Homo sapiens cDNA
9786	22763	36532	0.55	2.0E-67	AV731333.1	EST_HUMAN	RC4-BT0398-170100-011-c07 BT0398 Homo sapiens cDNA
9910	22950	36536	0.99	2.0E-67	AW203624.1	EST_HUMAN	AV731333 HTF Homo sapiens cDNA clone HTFARD03 5'
10848	23881	37501	0.53	2.0E-67	AA928089.1	EST_HUMAN	U1-H-B12-ahn-e-10-0.U1.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727263 3'
11141	24213	37840	1.75	2.0E-67	BF685788.1	EST_HUMAN	on88b07.s1 Scores_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1563541 3'
							602140470F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4301705 5'

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Probe ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11310	28230		2.55	2.0E-67	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
11504	24562	38240	2.06	2.0E-67	BE285714.1	EST_HUMAN	601175782F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
11743	23929	37555	2.44	2.0E-67	BF377169.1	EST_HUMAN	PM2-TN0103-040900-001-c02 TN0103 Homo sapiens cDNA
12327	25968	31770	2.47	2.0E-67	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (322p1), mRNA
283	13482	26514	2.37	1.0E-67	4502196	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
726	13908	26948	0.95	1.0E-67	AA702794.1	EST_HUMAN	z180504.s1 Soares_fetal_liver_spleen_1N1LS.S1 Homo sapiens cDNA clone IMAGE:448015 3'
4833	17866	30954	0.73	1.0E-67	BF439247.1	EST_HUMAN	inab0108.X1 Soares_NSIF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE: 3'
11288	24337		1.47	1.0E-67	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA
12105	25085		3.44	9.0E-68	4506090	NT	Homo sapiens mitogen-activated protein kinase 6 (MAPK6), mRNA
2245	15378	28608	8.3	8.0E-68	BE870732.1	EST_HUMAN	601448593F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:3852264 5'
3973	17130	30133	5.75	8.0E-68	AA209458.1	EST_HUMAN	z182h10.11 Strategene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW:SAV_SULAC Q07590 SAV PROTEIN. ;
3973	17130	30134	5.75	8.0E-68	AA209456.1	EST_HUMAN	z182h10.11 Strategene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW:SAV_SULAC Q07590 SAV PROTEIN. ;
8283	21375	34895	0.56	7.0E-68	A1810505.1	EST_HUMAN	wb86e03.X1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2312860 3'
10868	23700	37310	6.43	6.0E-68	11422086	NT	Homo sapiens Brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
11417	24478	38143	1.31	6.0E-68	AF133901.1	NT	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
12888	25579		2.84	6.0E-68	BE612854.1	EST_HUMAN	B01462067F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:3855761 5'
13165	26756	31927	1.45	6.0E-68	BF310675.1	EST_HUMAN	B01894935F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:1124144 5'
825	15986	27050	2	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
825	15986	27050	2	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
842	14020	27076	4.93	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
842	14020	27077	4.93	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3216	16390	28401	2.99	5.0E-68	AB037852.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
4297	17440		0.64	5.0E-68	4826967	NT	Homo sapiens reticuloblastoma-binding protein 2 (RBBP2), mRNA
2594	15719	28836	1	4.0E-68	11421388	NT	Homo sapiens transcription factor NRF (NRF), mRNA
2594	15719	28837	1	4.0E-68	11421388	NT	Homo sapiens transcription factor NRF (NRF), mRNA
5090	18218		7.11	4.0E-68	P04406	SWISSPROT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
6085	19267	32596	0.69	4.0E-68	AF157068.1	NT	Homo sapiens sedlin (SEDL) gene, exon 4
6912	20227	33659	6.03	4.0E-68	11055891	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCF1), mRNA
6912	20227	33660	6.03	4.0E-68	11055891	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCF1), mRNA
7859	20913	34418	0.84	4.0E-68	7861683	NT	Homo sapiens DKFZP586L0724 protein (DKFZP586L0724), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9240	22317	35859	5.59	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9240	22317	35860	5.59	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9280	22455	36018	3.17	4.0E-68	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
11251	24320	37960	1.84	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11251	24320	37961	1.84	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11434	24495	38161	1.72	4.0E-68	AB040948.1	NT	Homo sapiens mRNA for KIAA1616 protein, partial cds
12728	25485	32026	1.17	4.0E-68	11417968	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
3751	16912	29915	3.54	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
9656	21098		3.5	3.0E-68	AI342323.1	EST_HUMAN	q138n02.x1 Soares Telat_Jung_NbHL19W Homo sapiens cDNA clone IMAGE:1950291 3' similar to TR:080828 O80828
10720	23753	37359	1.35	3.0E-68	F28784.1	EST_HUMAN	THR12 THR repetitive element;
13111	25602		2.83	3.0E-68	AW939485.1	EST_HUMAN	HSPD18178 HM3 Homo sapiens cDNA clone s300023D09
2825	18474		29.7	2.0E-68	D00522.1	NT	QV1-DT0072-010200-088-h06 DT0072 Homo sapiens cDNA
4135	17288	30283	0.79	2.0E-68	BE675786.1	EST_HUMAN	Cricetus longicaudatus mRNA for EF-1 alpha, complete cds
4803	17938	30926	2.33	2.0E-68	AB009681.1	NT	771502x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3294747 3' similar to TR:080828 O80828
7015	20151		9.21	2.0E-68	R49098.1	EST_HUMAN	HYPOTHETICAL 88.9 KD PROTEIN ;
7209	20074	33486	3.81	2.0E-68	BF036316.1	EST_HUMAN	Homo sapiens gene for actin receptor type IIB, complete cds
7527	20600	34074	0.68	2.0E-68	BF36745.1	EST_HUMAN	Y938g04.st Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:34886 3'
9150	22228	35772	0.56	2.0E-68	Q05859	SWISSPROT	601458514F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3892034 5'
11521	24577	38255	1.49	2.0E-68	BF330594.1	EST_HUMAN	IL3-CT0534-180900-273-A01 CT0534 Homo sapiens cDNA
12285	26170		1.59	2.0E-68	BE897376.1	EST_HUMAN	FORMIN 4 (LIMB DEFORMITY PROTEIN)
13192	25775		1.32	2.0E-68	AW016803.1	EST_HUMAN	QV0-BT0074-130999-014-g04 BT0074 Homo sapiens cDNA
81	13316	26344	0.83	1.0E-68	AW016803.1	EST_HUMAN	601437357F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3922192 5'
307	13523	26557	16.49	1.0E-68	AW818405.1	EST_HUMAN	U1H-B10-aam-h-05-p-UJ.st NCL_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2706824 3'
2328	15458	28560	1.24	1.0E-68	AB011149.1	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
2326	15458	28591	1.24	1.0E-68	AB011149.1	NT	QV4-ST0234-181169-037-005 ST0234 Homo sapiens cDNA
4117	17271	30270	0.8	1.0E-68	BE28032.1	EST_HUMAN	Homo sapiens mRNA for KIAA0577 protein, complete cds
5140	15263	31231	0.71	1.0E-68	AA887343.1	EST_HUMAN	Homo sapiens mRNA for KIAA0577 protein, complete cds
5437	18357	31816	1.92	1.0E-68	7962349	NT	80117702F1 NIH_MGC 17 Homo sapiens cDNA clone IMAGE:3532344 5'
7853	20908	34412	0.75	1.0E-68	11436716	NT	ad7g12.81 Soares NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1460518 3'
10385	23420	37027	0.45	1.0E-68		NT	Homo sapiens cell recognition molecule Caspr2 (KIA0868), mRNA
11089	24183	37789	2.18	1.0E-68	11418869	NT	Homo sapiens centrin/SUMO-specific protease (SENPT1), mRNA
							Homo sapiens similar to ecdonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
							Homo sapiens phosphodiesterase 7B (PDE7B), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11089	24163	37800	2.18	1.0E-68	11418869	NT	Homo sapiens phosphodiesterase 7B (PDE7B), mRNA
11142	24214	37841	2.81	1.0E-68	L76416.1	NT	Homo sapiens MIF2 suppressor (HSMIT3) mRNA, complete cds
11468	24527	38200	1.7	1.0E-68	11433277	NT	Homo sapiens myosin IC (MYO1C), mRNA
11580	24634	38313	2.83	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11580	24634	38314	2.83	1.0E-68	U50319.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11963	24648	38653	1.81	1.0E-68	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
11963	24948	38654	1.81	1.0E-68	11418431	NT	Homo sapiens CGI-78 protein (LOC51632), mRNA
12849	13316	26344	2.53	1.0E-68	4502222	NT	Homo sapiens meningo (disrupted in balanced translocation) 1 (MN1), mRNA
13100	26092	31661	3.05	1.0E-68	11430490	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13184	25755	31661	1.88	1.0E-68	11418213	NT	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA
22	13260	26280	2.42	9.0E-69	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
22	13260	26261	2.42	9.0E-69	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
1063	14219	27276	0.99	9.0E-69	8031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1053	14219	27276	0.99	9.0E-69	8031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
4246	17392	30380	0.8	9.0E-69	4757867	NT	Homo sapiens v-ref murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
4266	17411	30387	0.89	9.0E-69	4504010	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), regulatory (30.8kD) (GLCLR) mRNA
11128	24200		7.86	9.0E-69	AU117241.1	EST_HUMAN	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000968 5'
3473	16640		1.28	8.0E-69	AJ237744.1	NT	Homo sapiens RIBIIR gene (partial), exon 12
6482	18948	33011	4.44	7.0E-69	9966012	NT	Homo sapiens actin-related protein 3 beta (ARPA3BETA), mRNA
8047	21130	34649	1.85	6.0E-69	A192764.1	EST_HUMAN	q62h01.x1 Soares fetal lung NhlL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to
8047	21130	34650	1.85	6.0E-69	A192764.1	EST_HUMAN	q62h01.x1 Soares fetal lung NhlL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to
9174	22552	35786	1.05	5.0E-69	A4826039.1	EST_HUMAN	q62h01.x1 Soares fetal lung NhlL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to
533	13726		1.18	4.0E-69	A1873630.1	EST_HUMAN	q660a03.s1 NCL CGAP_GCBT Homo sapiens cDNA clone IMAGE:2437125 3'
5881	25812	32378	1.53	4.0E-69	BE561063.1	EST_HUMAN	601344705F1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:3677641 5'
5966	19152	32487	4.82	4.0E-69	A1764978.1	EST_HUMAN	wh57068.x1 NCL CGAP_Ki611 Homo sapiens cDNA clone IMAGE:2384819 3' similar to TR:O55137
8764	19920	33315	3.17	4.0E-69	4557732	NT	O55187 ACYL-COA THIOESTERASE. ;
8764	19920	33316	3.17	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9116	22194	33739	0.55	4.0E-69	AU119634.1	EST_HUMAN	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
397	13634	26872	5.24	3.0E-69	BE268012.1	EST_HUMAN	AU119634 HEMBA1 Homo sapiens cDNA clone HEMBA1009283 5'
627	13812	26834	2.78	3.0E-69	AF221712.1	NT	80110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 5'
							Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1586	14738		1.12		780514.1	EST_HUMAN	yd08a02.1 Soares Infant brain INIS Homo sapiens cDNA clone IMAGE:24890 5' similar to SP-A48836
2449	15577		2.18	3.0E-69	6726910	NT	A48836 SPEC III=EGF REPEAT-CONTAINING FIBROPELIN-LIKE PROTEIN - SEA URCHIN ;
5357	18483	38823	1.37	3.0E-69	11418185	NT	Homo sapiens lymphatic vessel endothelial hyaluronan receptor 1 (LYVE-1) mRNA
7529	20802	34076	0.76	3.0E-69	AF095703.1	NT	Homo sapiens acylase 2, mitochondrial (ACO2), mRNA
7578	20650	34129	1.74	3.0E-69	U52351.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7724	20768	34277	8.4	3.0E-69	AF288075.1	NT	Homo sapiens arm-repeat protein NPRAP/neurexophilin (CTNND2) mRNA, partial cds
8567	21648	35180	1.33	3.0E-69	AW138846.1	EST_HUMAN	Homo sapiens TRAF6-binding protein TBPB mRNA, complete cds
8967	22046		0.74	3.0E-69	AA376389.1	EST_HUMAN	UI-H.B11-acw-q-01-0-LJ st NCI_OGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715840 3'
9613	22666	36238	1.74	3.0E-69	X13223.1	NT	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
9733	22798	36372	3.15	3.0E-69	X06233.1	NT	H sapiens mRNA for N-acetylglucosaminide-(beta 1-4)-galactosyltransferase
10034	23072	36672	0.56	3.0E-69	5730036	NT	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF)-related protein
10877	23962	37590	2.74	3.0E-69	11432120	NT	Homo sapiens SEC10 (S. cerevisiae)-like 1 (SEC10L1), mRNA
11080	24155		7.88	3.0E-69	AA376399.1	EST_HUMAN	Homo sapiens ribosomal protein S15a (RPS15A), mRNA
12112	25092	38785	1.77	3.0E-69	AB011541.1	NT	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
12112	25092	38786	1.77	3.0E-69	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
12305	25223		3.1	3.0E-69	11419157	NT	Homo sapiens mRNA for MEGF8, partial cds
131	13612	26651	1.09	2.0E-69	AF160282.1	NT	Homo sapiens HGO8.2 protein (HGO8.2), mRNA
131	13612	26652	1.09	2.0E-69	AF160282.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
417	13612	26651	4.42	2.0E-69	AF160282.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
417	13612	26652	4.42	2.0E-69	AF160282.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
1834	15077	28181	1.79	2.0E-69	BE257857.1	EST_HUMAN	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
2906	16084		4.14	2.0E-69	AA431157.1	EST_HUMAN	601109444F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350074 5'
8761	21830	36388	0.95	2.0E-69	AA114270.1	EST_HUMAN	zw71g02.1 Soares, testis, NIH Homo sapiens cDNA clone IMAGE:781882 5'
1680	14832		1	1.0E-69	BF330124.1	EST_HUMAN	znt28g01.1 Strataegene pancreas (#637208) Homo sapiens cDNA clone IMAGE:527088 5'
1739	14888	27980	2.4	1.0E-69	AF053768.1	NT	RCO-BN0305-200600-031-405 BN0305 Homo sapiens cDNA
5137	18260		0.63	1.0E-69	BE409094.1	EST_HUMAN	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
6175	19351	32697	0.63	1.0E-69	BE602501.1	EST_HUMAN	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'
6175	19351	32698	0.63	1.0E-69	BE602501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3988832 6'
6738	19884	33285	4.36	1.0E-69	AW393969.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3988832 5'
6958	20271	33709	1.22	1.0E-69	7862263	NT	QV0-TT0010-031189-045-c07 TT0010 Homo sapiens cDNA
							Homo sapiens KIAA0716 gene product (KIAA0716), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6958	20271	33710	1.22	1.0E-69	7662293	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6976	20204	33631	2.91	1.0E-69	AB032073.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6976	20204	33632	2.91	1.0E-69	AB032873.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
7021	20157	33578	0.61	1.0E-69	BE531007.1	EST_HUMAN	601278632F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3910614 5'
7021	20157	33579	0.61	1.0E-69	BE531007.1	EST_HUMAN	601278632F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3910614 5'
10377	23412	37020	5.01	1.0E-68	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10377	23412	37021	5.01	1.0E-68	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10625	23659	37268	0.9	1.0E-69	BF528429.1	EST_HUMAN	602043782F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4781325 5'
11112	24184		35.41	1.0E-68	4504818	NT	Homo sapiens keratin 8 (KRT8) mRNA
12237	25181	38352	1.68	1.0E-69	BF125887.1	EST_HUMAN	601762902F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'
12673	25449		3.4	1.0E-69	AI809984.1	EST_HUMAN	wf64e08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:4025785 5'
2408	16031	28667	1.56	8.0E-70	AA230303.1	EST_HUMAN	repetitive element, contains element MIR repetitive element ;
4493	17633	30616	1.64	8.0E-70	L77596.1	NT	Homo sapiens DGS-1 mRNA, 3' end
1868	15002	28108	2.42	7.0E-70	AI497807.1	EST_HUMAN	hm8901.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2166305 3'
1856	15002	28109	2.42	7.0E-70	AI497807.1	EST_HUMAN	hm8901.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2166305 3'
1884	15127	28229	1.67	7.0E-70	AA252955.1	EST_HUMAN	z11804.t1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:713239 5'
2125	15261		5.13	7.0E-70	6031688	NT	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC-1R) mRNA
4340	17493	30465	4.29	7.0E-70	4757723	NT	Homo sapiens adenylylase cyclase 3 (ADCY3) mRNA
5600	18795	31844	5.4	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
5600	18795	31845	5.4	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
7064	20117	33531	1.9	7.0E-70	AI000052.1	NT	Homo sapiens gene encoding splicing factor SF1, exons 2-8
7845	20995	34508	0.84	7.0E-70	11417308	NT	Homo sapiens titin immunoglobulin domain protein (myotilin) (TTID), mRNA
8626	21706	35242	2.55	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8626	21706	35243	2.55	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8919	21998	35538	3.8	7.0E-70	M74098.1	NT	Human displacement protein (CGAAT) mRNA
8919	21998	35539	3.8	7.0E-70	M74098.1	NT	Human displacement protein (CGAAT) mRNA
9358	22433	35991	5.59	7.0E-70	X59841.1	NT	Human PBX3 mRNA
9358	22433	35992	5.59	7.0E-70	X59841.1	NT	Human PBX3 mRNA
9635	21078	34590	2.88	7.0E-70	AF153115.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
9660	21102	34617	1.7	7.0E-70	11525984	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9660	21102	34618	1.7	7.0E-70	11525984	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9857	22897	36480	0.53	7.0E-70	4557824	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC)
10505	23540	37149	0.85	7.0E-70	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
10505	23540	37150	0.85	7.0E-70	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
11329	24392	38039	1.77	7.0E-70	11428685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
11329	24392	38040	1.77	7.0E-70	11428685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
11897	24885	38583	2.37	7.0E-70	11528319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11897	24885	38584	2.37	7.0E-70	11528319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
884	14070	27135	2.51	6.0E-70	4502188	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2205	15339	28468	2.29	6.0E-70	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4628	17765	30747	0.7	6.0E-70	AF164121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
2818	15066	28854	1.78	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
2618	16066	28855	1.78	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
12247	25188	33454	5	5.0E-70	BE166034.1	EST_HUMAN	MR3-HT0487-160200-115-a08 HT0487 Homo sapiens cDNA
6894	20045	33454	1.03	4.0E-70	T06037.1	EST_HUMAN	EST03928 Felal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBDN25
6933	20248	33682	1.84	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
6933	20248	33683	1.84	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
1619	14771	27853	1.71	3.0E-70	BE071786.1	EST_HUMAN	RC0-BT0522-071299-011-a12 BT0522 Homo sapiens cDNA
5270	18389	31357	1.11	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071299-011-a12 BT0522 Homo sapiens cDNA
5737	18930	32227	0.59	3.0E-70	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
5737	18930	32228	0.59	3.0E-70	11430988	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
6066	18248	32675	1	3.0E-70	A1831975.1	EST_HUMAN	Homo sapiens plakophilin 4 (PKP4), mRNA
6503	19669	33033	1.69	3.0E-70	BF685233.1	EST_HUMAN	wh9cd03.xt NC1 CGAP_GLL1 Homo sapiens cDNA clone IMAGE:2988005.3
6503	19669	33034	1.69	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302808.5
10314	23349	36955	0.62	3.0E-70	BE502973.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302808.5
30	13277	26283	1.03	2.0E-70	AF012672.1	NT	h281n02.xt NC1 CGAP_1024 Homo sapiens cDNA clone IMAGE:3214419.3
707	13890	26923	15.24	2.0E-70	N42161.1	EST_HUMAN	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds yy07a10.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:270522.5 similar to SW:D3HL_RAT_P28265 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
707	13880	28924	15.24	2.0E-70	N42161.1	EST_HUMAN	W07a10.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HL_RAT P28298 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
723	13905	28947	1.85	2.0E-70	A1246889.1	EST_HUMAN	q51h01.x1 NC1 CGAP_P an1 Homo sapiens cDNA clone IMAGE:2004913 3'
1046	14212	27289	1.36	2.0E-70	8923689	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
1211	14372	27432	2.16	2.0E-70	7681983	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
1211	14372	27433	2.16	2.0E-70	7681983	NT	Homo sapiens KIAA0183 gene product (KIAA0183), mRNA
1441	14924	27669	1.23	2.0E-70	BE467311.1	EST_HUMAN	h284c12.x1 NC1 CGAP_LJ24 Homo sapiens cDNA clone IMAGE:3212758 3'
1688	14840	27924	1.07	2.0E-70	AA180093.1	EST_HUMAN	z44505.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:612441 5' similar to TR:G1041283 G1041283 D2085.5 ;
1688	14840	27925	1.07	2.0E-70	AA180093.1	EST_HUMAN	z44505.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:612441 5' similar to TR:G1041283 G1041283 D2085.5 ;
1781	14930	28023	4.92	2.0E-70	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2394	15525		9.42	2.0E-70	AA054010.1	EST_HUMAN	z44804.r1 Soares retina N2b-4HR Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A
3923	17082	30078	0.71	2.0E-70	AL133207.2	NT	P03345 GAG POLYPROTEIN ;
4180	17311	30307	5.88	2.0E-70	M69181.1	NT	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds
5632	18828	31901	8.42	2.0E-70	X72662.1	NT	H. sapiens gene for schwannin (CS8)
5632	18828	31902	8.42	2.0E-70	X72662.1	NT	H. sapiens gene for schwannin (CS8)
6333	18504	32862	1.23	2.0E-70	AF310106.1	NT	Homo sapiens NALP1 mRNA, complete cds
6771	18926	33321	2.65	2.0E-70	D12625.1	NT	Human mRNA for NF1 protein isoform (neurofibromin isoform), complete cds
6808	18960	33362	10.35	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6808	18960	33363	10.35	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
7136	18562	31477	1.5	2.0E-70	11422842	NT	Homo sapiens sialyltransferase 8 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT8), mRNA
8103	21185	34704	2.81	2.0E-70	M21741.1	NT	Human guanine nucleotide-binding protein alpha-subunit gene (G-e-alpha), exons 4 and 5
8417	21498	35030	0.66	2.0E-70	11423599	NT	Homo sapiens amylo-1 B-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen
8860	21839		1.34	2.0E-70	H47969.1	EST_HUMAN	storage disease type III (AGL), mRNA
8870	22445	36007	1.14	2.0E-70	11523365	NT	Homo sapiens dynactin p62 subunit (LOC51164), mRNA
10342	23377	36688	1.26	2.0E-70	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
11324	24387	38031	3.39	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11324	24387	38032	3.39	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11640	24928	38628	7.78	2.0E-70	4903520	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 6 (48KD) (EIF3S6) mRNA
12682	26439	32050	2.42	2.0E-70	11430480	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12682	25439	32051	2.42	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3480	16647		3.72	1.0E-70	4507475	NT	Homo sapiens transglutaminase 3 (E polypeptide, proin-gutamine-gamma-glutamyltransferase) (TGM3) mRNA
9480	22537				W85795.1	EST_HUMAN	z65505.t1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418024 5'
10003	23041		0.88	1.0E-70	AA442292.1	EST_HUMAN	z65403.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757444 5'
11175	24244	37877	7.61	1.0E-70	AV738538.1	EST_HUMAN	AV738538 CB Homo sapiens cDNA clone CBLGB10 5'
6085	19247	32573				EST_HUMAN	qe04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
6085	19247	32574	6.03	9.0E-71	AI143870.1	EST_HUMAN	qe04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
7175	20308	33751	2.05	9.0E-71	AI654903.1	EST_HUMAN	w852c05.x1 NC1_QGAP_G06 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
11813	20308	33751	3.47	9.0E-71	AI654903.1	EST_HUMAN	CDU2, CDU1, TODD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ; w852c05.x1 NC1_QGAP_G06 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
9270	22346		2.88	8.0E-71	AA171451.1	EST_HUMAN	CDU2, CDU1, TODD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ; zp21d11.t1 Strelagene neuroepithelium (#637231) Homo sapiens cDNA clone IMAGE:610101 5' similar to TR:G1143061 G1143061 STRAIN XA34 POL. ;
10828	23861	37484	0.53	8.0E-71	AW273820.1	EST_HUMAN	XZ4d01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2814049 3' similar to TR:O64730
7533	20605	34081	7.86	7.0E-71	AA442230.1	EST_HUMAN	OS4730 TRANSPLANTABILITY ASSOCIATED PROTEIN 1 ;
8877	21866	35491	1.34	7.0E-71	AA705457.1	EST_HUMAN	z60106.t1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:758075 5'
11614	24655	38353	2.2	7.0E-71	AL163210.2	NT	z91a06.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462226 3'
2284	15416	28548	7.11	5.0E-71	AF056322.1	NT	Homo sapiens chromosome 21 segment HS2(C010
4265	17382	30371	1.18	5.0E-71	AW618405.1	EST_HUMAN	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
6002	19187	32509	1.59	5.0E-71	4502740	NT	QV4-ST0234-181199-037-005 ST0234 Homo sapiens cDNA
6801	19556	33356	1.4	5.0E-71	11841408	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
7090	20113	33528	0.84	5.0E-71	7662209	NT	Homo sapiens keratin, hair, acidic, 7 (KRT1A7), mRNA
7296	20378	33836	0.82	5.0E-71	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7678	20744	34225	1.79	5.0E-71	M88108.1	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7884	20938	34442	0.8	5.0E-71	11628445	NT	Human neurofibromatosis protein type 1 mRNA, 3' end of cds
7912	20963	34471	20.85	8.0E-71	AF072810.1	NT	Homo sapiens MAGUK protein p51; Protein Associated with Line 2 (LOC51678), mRNA
8720	21800	35335	0.56	5.0E-71	5453777	NT	Homo sapiens transcription factor W5TF mRNA, complete cds
8720	21800	35336	0.56	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
10115	23153		2.06	5.0E-71	X13467.1	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKB) mRNA
10478	23511	37124	0.49	6.0E-71	U70968.1	NT	Human P reA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
							Human arretin (SAG) gene exon 8

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10870	23955	37584	1.45	5.0E-71	5729900	NT	Homo sapiens IGF-II mRNA-binding protein 3 (KOC1), mRNA
10943	24025	37660	1.53	5.0E-71	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
10943	24025	37661	1.53	5.0E-71	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
11226	24295	37936	3.85	5.0E-71	11436514	NT	Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide II), neutrophil-activating peptide-2 (PPBP), mRNA
11487	24526	38199	2.1	5.0E-71	11438069	NT	Homo sapiens RNA binding motif protein 9 (RBM9), mRNA
12958	25380		1.75	5.0E-71	11418039	NT	Homo sapiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC63325), mRNA
106	13342	26370	1.84	4.0E-71	4507592	NT	Homo sapiens tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10), mRNA
360	13571	26801	31.91	4.0E-71	AF157626.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
360	13571	26802	31.91	4.0E-71	AF157626.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2951	16128	29141	1.67	4.0E-71	4506880	NT	Homo sapiens plasminogen (PLG), mRNA
4548	17686	30667	1.97	4.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100), mRNA, complete cds
5101	18229	31200	4.56	4.0E-71	7657602	NT	Homo sapiens putative heme-binding protein (SQU), mRNA
8223	21305		1.13	3.0E-71	AU135734.1	EST_HUMAN	AU135734 PLACE1 Homo sapiens cDNA clone IMAGE1002775 5'
10931	24013	37646	3.32	3.0E-71	AA557683.1	EST_HUMAN	n45h10.s1 NCL CGAP_P44 Homo sapiens cDNA clone IMAGE:1043683 similar to contains PTR5,13 PTR5 repetitive element ;
1258	14416	27481	4.54	2.0E-71	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C008
5435	18635	31614	7.23	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
5435	18635	31615	7.23	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
7107	18534	31489	0.71	2.0E-71	AL042439.1	EST_HUMAN	DKFZp434D1721_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D1721 5'
9207	22285	35828	0.5	2.0E-71	BF195585.1	EST_HUMAN	Q9Z165 PUTATIVE FOUR REPEAT ION CHANNEL ;
10813	23846	37487	2.12	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10813	23846	37488	2.12	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10933	24015	37647	4.37	2.0E-71	BE018477.1	EST_HUMAN	bb81a08.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048764 6' similar to SW-R23B_HUMAN P54727 UV EXCISION REPAIR PROTEIN RAD23 HOMOLOG B ;
11860	24848	38545	1.46	2.0E-71	BF149173.1	EST_HUMAN	Tm1022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gl 6598881
11860	24848	38546	1.46	2.0E-71	BF149173.1	EST_HUMAN	Tm1022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gl 6598881
11882	24870	38567	2.05	2.0E-71	RF55928.1	EST_HUMAN	y77c11.1 Soares breast 2NBHBst Homo sapiens cDNA clone IMAGE:154772 5'
12318	25231		4.88	2.0E-71	T05180.1	EST_HUMAN	y943e09.1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:120520 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
665	13841	26868	1.55	1.0E-71	AI077927.1	EST_HUMAN	ov15q03 st Scars, senescent, fibroblasts, NBHSF Homo sapiens cDNA clone IMAGE:1685916 3' similar to contains LOR1.b2 LOR1 repetitive element ;
964	14137	27168	1.36	1.0E-71	7706281	NT	Homo sapiens neuronal cell death-related protein (LOC51616), mRNA
1124	14289	27344	13.07	1.0E-71	AF205890.1	NT	Homo sapiens disabled-2 gene, exons 2 through 15 and complete cds
1371	14526	27600	11.13	1.0E-71	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2147	15283	28408	1.52	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2147	15283	28409	1.52	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2757	15874	28982	6.06	1.0E-71	7657153	NT	Homo sapiens hairyenhancer of split related with YRPW motif-like (HEYL), mRNA
3590	16754	29769	1.66	1.0E-71	AF19685.1	NT	Homo sapiens inorganic pyrophosphatase mRNA, complete cds
3595	16848	28655	6.57	1.0E-71	AF248219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3685	16848	28658	6.57	1.0E-71	AF248219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3738	16999	29902	0.9	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library: Upregulated Transcripts Homo sapiens cDNA clone 02_15 similar to Homo sapiens chromosome 19
3738	16999	29903	0.9	1.0E-71	BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library: Upregulated Transcripts Homo sapiens cDNA clone 02_15 similar to Homo sapiens chromosome 19
3835	16995	29997	2.2	1.0E-71	AF218904.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 19
4593	17730	30712	2.13	1.0E-71	D28478.1	NT	Human mRNA for KIAA0045 gene, complete cds
6881	20033	33443	1.48	1.0E-71	11428182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
7235	20319	33762	1.49	1.0E-71	AB011131.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
7484	20539	34013	12.52	1.0E-71	U80753.1	NT	Homo sapiens CAGL79 mRNA, partial cds
8340	21421	34946	0.82	1.0E-71	AF105287.1	NT	Homo sapiens glycine-6 (GPO6) mRNA, complete cds
8382	21443	34965	2.21	1.0E-71	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8641	21721	35257	4.23	1.0E-71	8922811	NT	Homo sapiens hypodermal protein FLJ10998 (FLJ10998), mRNA
8641	21721	35258	4.23	1.0E-71	8922811	NT	Homo sapiens hypodermal protein FLJ10998 (FLJ10998), mRNA
9429	22503	36069	0.68	1.0E-71	S72383.1	NT	CSNK2A1-asein kinase II (CKII) subunit alpha [human, Genomic, 18862 nt]
10211	23247	36837	6.22	1.0E-71	AY007643.1	NT	Homo sapiens cyclochrome c oxidase subunit VIIa-related protein gene, complete cds
10273	23308		2.74	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10759	23702	37411	0.97	1.0E-71	11433142	NT	Homo sapiens activated leucocyte cell adhesion molecule (ALCAM), mRNA
11024	24103		2.49	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
11121	24193	37824	3.31	1.0E-71	11418903	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
11413	24474	38138	3.2	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
11413	24474	38139	3.2	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
12709	25471		10.17	1.0E-71	AB011399.1	NT	Homo sapiens gene for AF-8, complete cds

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Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
420	13615	26654	0.77	9.0E-72	A1857635.1	EST_HUMAN	wk95g03.x1 NCI CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2423185.3 similar to TR:O86705 O86705 HYPOTHETICAL 38.6 KD PROTEIN, contains Alu repetitive element
420	13616	26655	0.77	9.0E-72	A1857635.1	EST_HUMAN	wk95g03.x1 NCI CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2423185.3 similar to TR:O86705 O86705 HYPOTHETICAL 38.6 KD PROTEIN, contains Alu repetitive element
6237	19412	32780	0.86	8.0E-72	BF035752.1	EST_HUMAN	B01468747F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3862451.5
4228	17375	30361	1.75	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4228	17375	30362	1.75	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4228	17375	30363	1.75	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
7274	20357	33811	3	7.0E-72	S41694.1	NT	(pseudogene) PTMAP2=prothymosin alpha [human, Genomic, 1182 nt, segment 2 of 3]
12857	25569		1.53	7.0E-72	F26266.1	EST_HUMAN	HSPD13670 HM3 Homo sapiens cDNA clone s400005TG02
8578	21659		5.7	6.0E-72	AL103246.2	NT	Homo sapiens chromosome 21 segment HS21C046
84	13302	26324	1.19	5.0E-72	BF333707.1	EST_HUMAN	QV0-QS0010-150900-398-e11 CS0010 Homo sapiens cDNA
84	13302	26325	1.19	5.0E-72	BF333707.1	EST_HUMAN	QV0-QS0010-150900-398-e11 CS0010 Homo sapiens cDNA
85	13302	26324	3.1	5.0E-72	BF333707.1	EST_HUMAN	QV0-QS0010-150900-398-e11 CS0010 Homo sapiens cDNA
85	13302	26325	3.1	5.0E-72	BF333707.1	EST_HUMAN	QV0-QS0010-150900-398-e11 CS0010 Homo sapiens cDNA
1182	14326		2.31	5.0E-72	L11945.1	NT	Homo sapiens alpha-tubulin mRNA, complete cds
7089	20183	33807	1.62	5.0E-72	AU126584.1	EST_HUMAN	AU126584 NT2RP2 Homo sapiens cDNA clone NT2RP2003751.5
8976	22055	35598	4.16	5.0E-72	AW181274.1	EST_HUMAN	au80c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564.5 similar to TR:Q99785 Q99785 HYPOTHETICAL 32.4 KD PROTEIN, contains element MSR1 repetitive element ;
10166	23203	36797	0.71	5.0E-72	AV724632.1	EST_HUMAN	AV724632 HTB Homo sapiens cDNA clone HTBAKB01.5
11519	24575	38252	2.95	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-005 BT0598 Homo sapiens cDNA
11519	24575	38253	2.95	5.0E-72	BF331571.1	EST_HUMAN	MR4-BT0598-010600-005-005 BT0598 Homo sapiens cDNA
11845	24931	38633	1.66	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806.5
11845	24931	38634	1.55	5.0E-72	BE208545.1	EST_HUMAN	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806.5
12390	20138		2.40	5.0E-72	BE028645.1	EST_HUMAN	QV1-BT0032-280800-342-e10 BT0032 Homo sapiens cDNA
4943	18073		0.91	4.0E-72	11034844	NT	Homo sapiens hypothetical protein cdJ1057820.2 (DJ1057820.2), mRNA
5581	18778	31821	0.68	4.0E-72	AF170025.1	NT	Homo sapiens zinc finger protein ZFP-96 (ZFP96) mRNA, alternatively spliced, complete cds
6687	18845	33236	0.85	4.0E-72	T87947.1	EST_HUMAN	y89a01.r1 Soares fetal liver spleen (N1FS Homo sapiens cDNA clone IMAGE:115752.5 similar to SP:A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
7587	20639	34115	3.28	4.0E-72	6729867	NT	Homo sapiens hsc domain and RLD 2 (HERC2), mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9987	23026	36616	0.87	4.0E-72	88233669	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
10312	23347	36953	0.57	4.0E-72	11434344	NT	Homo sapiens SEC10 (S. cerevisiae)-like 1 (SEC10L1), mRNA
10604	23638	37245	0.54	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
10604	23638	37245	0.54	4.0E-72	AW836230.1	EST_HUMAN	RC3-LT0023-200100-012-d11 LT0023 Homo sapiens cDNA
							4h87c02.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849730 3' similar to TR:Q14498 Q14498 SPLING FACTOR, [1], contains Alu repetitive element; contains element L1 repetitive element.
10634	23658	37278	1.04	4.0E-72	AJ248796.1	EST_HUMAN	aa23f09.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR.
11563	24018	38298	1.67	4.0E-72	AA465398.1	EST_HUMAN	aa23f09.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR.
11663	24618	38299	1.57	4.0E-72	AA465398.1	EST_HUMAN	aa23f09.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR.
11818	24907	38503	8.28	4.0E-72	HT9421.1	EST_HUMAN	y028a03.t1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:235084 5'
11838	24924	38624	2.19	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11938	24924	38625	2.19	4.0E-72	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11976	24961	38663	1.87	4.0E-72	T81910.1	EST_HUMAN	y028d09.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109649 3'
12779	26521	32003	11.86	4.0E-72	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
21	13259	26259	0.7	3.0E-72	5031976	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
926	14101		1.48	3.0E-72	AA723823.1	EST_HUMAN	ah63a06.s1 Soares_testis_NHT Homo sapiens cDNA clone 1310280 3'
1180	14343	27398	6.32	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan version V0 splice-variant precursor peptide mRNA, complete cds
1180	14343	27399	6.32	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan version V0 splice-variant precursor peptide mRNA, complete cds
1220	14381	27440	3.98	3.0E-72	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1220	14381	27441	3.98	3.0E-72	U80228.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1548	14700	27779	1.18	3.0E-72	BE242161.1	EST_HUMAN	TCAAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project TCAA Homo sapiens cDNA clone TCAAAP1252
3143	16319	29331	12.72	3.0E-72	AJ28043.1	NT	Homo sapiens 689 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
3352	16524	29539	2.7	3.0E-72	8923548	NT	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA
3927	17086	30052	2.51	3.0E-72	S77589.1	NT	TCR V delta 2-C alpha epsilon cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction)
4667	17802	30789	3.17	3.0E-72	11416196	NT	Homo sapiens hypothetical protein (FLJ11127), mRNA
4889	18019	31003	1.25	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4889	18019	31004	1.26	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5637	18831		1.12	3.0E-72	4759093	NT	Homo sapiens semaphorin W (SEMAW) mRNA
6101	19281	32613	1.94	3.0E-72	AF073367.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6101	19281	32614	1.94	3.0E-72	AF073367.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6295	19466	32822	4.53	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6295	19466	32823	4.53	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6747	19603	33296	4.1	3.0E-72	4826987	NT	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA
7768	20817	34307	2.01	3.0E-72	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nabp) and survival motor neuron protein (smn) genes, complete cds
8369	21450	34973	5.42	3.0E-72	5031892	NT	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA
10646	23680	37280	1.09	3.0E-72	X98289.1	NT	Homo sapiens S100A12 gene for Calgranulin C, exon 2 and joined cds
12878	25453	32016	2.18	3.0E-72	AB011398.1	NT	Homo sapiens gene for AF-6, complete cds
8079	19261	32690	1.38	2.0E-72	11426871	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA
9297	22373	35923	0.94	2.0E-72	BF308560.1	EST_HUMAN	601890419FT NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
9297	22373	35924	0.94	2.0E-72	BF308560.1	EST_HUMAN	601890419FT NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
10978	24057	37691	5.46	2.0E-72	AA789277.1	EST_HUMAN	q28509.61 Soares testis NHT Homo sapiens cDNA clone 1391809 3' similar to gb:X02067 H.sapiens mRNA for 7SL RNA pseudogene (HUMAN):
12772	25515	31989	3.39	2.0E-72	AF182714.1	NT	Rattus norvegicus putative phosphatidylphosphorylpyruvate translocase mRNA, complete cds
2137	15273	28394	8.14	1.0E-72	AA846225.1	EST_HUMAN	aa3302.31 Soares parathyroid tumor_NHHPA Homo sapiens cDNA clone IMAGE:1367395 3'
5897	18075	32384	3.54	1.0E-72	7657676	NT	Homo sapiens vacuolar protein sorting 41 (yeast homolog) (VPS41), mRNA
6889	19847	33237	1.22	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6889	19847	33238	1.22	1.0E-72	11321578	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6769	25832	33319	1.29	1.0E-72	AV751618.1	EST_HUMAN	AV751618 NPD Homo sapiens cDNA clone NPDAE11 5'
7815	20870	34396	3.5	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
7815	20870	34397	3.5	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
9780	22830	36408	7.37	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
9780	22830	36409	7.37	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
1488	14641	27723	1.17	9.0E-73	AW374988.1	EST_HUMAN	MRO-CT0063-071099-002-N11 CT0063 Homo sapiens cDNA
6164	19340	32687	0.92	9.0E-73	11525883	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
11193	24202		24.49	9.0E-73	11424096	NT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
1063	14226	27286	0.73	8.0E-73	AW071755.1	EST_HUMAN	ws55c06.x1 NCI_CGAP_Brm26 Homo sapiens cDNA clone IMAGE:2501088 3' similar to TR:Q59050
5698	18892	32184	0.98	8.0E-73	4305798	NT	Q59050 HYPOTHETICAL PROTEIN MJ1656 ; Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6702	19860	33250	6.29	8.0E-73	11426469	NT	Homo sapiens lysozyme homolog (LOC57151), mRNA
8287	21369	34890	2.1	8.0E-73	AF113129.1	NT	Homo sapiens vacuolar ATPase isoform VA08 mRNA, complete cds
9553	22618	36188	4.35	8.0E-73	BE019900.1	EST_HUMAN	b62a08.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb:X04098_cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb:M21495 Mouse cytoskeletal gamma-actin mRNA, complete cds (MOUSE);
9941	22980	36570	1.76	8.0E-73	11626037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
9941	22980	36571	1.76	8.0E-73	11626037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
10134	23172	36770	0.91	8.0E-73	X91940.1	NT	H. sapiens mRNA for WNT-38 protein
10834	23867	37490	0.47	8.0E-73	4607628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNP1) mRNA
12001	24986	38890	1.49	8.0E-73	AF084520.1	NT	Homo sapiens Brefeldin A-inhibited guanine nucleotide-exchange protein 1 mRNA, complete cds
12598	25403	32044	1.2	8.0E-73	AB002039.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12842	25560	31986	4.55	8.0E-73	11478189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
1157	14321	27376	1.61	7.0E-73	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3373	16545	29556	0.7	7.0E-73	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
5059	18187		1.29	7.0E-73	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C008
162	13387		3.04	6.0E-73	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
7323	20405	33887	3.42	6.0E-73	BE166574.1	EST_HUMAN	QV0-HT0494-020300-137-403 HT0494 Homo sapiens cDNA
5368	18571	31439	2.05	4.0E-73	11422159	NT	Homo sapiens HELG protein (FAM4A1), mRNA
1911	15054	28185	1.34	3.0E-73	11435913	NT	Homo sapiens heme-binding protein (HEBP), mRNA
1911	15054	28186	1.34	3.0E-73	11435913	NT	Homo sapiens heme-binding protein (HEBP), mRNA
6837	19990	33398	0.73	3.0E-73	AA136403.1	EST_HUMAN	zn05604.e1 Stratigene fetal retina 937202 Homo sapiens cDNA clone IMAGE:565950 3' similar to gb:Z23064_cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN);
8958	22037	35578	0.73	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAA5071 5'
8958	22037	35579	0.73	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAA5071 5'
10927	24010		1.45	3.0E-73	X99680.1	NT	H. sapiens SH3GLP2 pseudogene, 5' end
11261	24330	37970	1.41	3.0E-73	BE711238.1	EST_HUMAN	RC8-HT0678-290600-013-HT0678 Homo sapiens cDNA
11261	24330	37971	1.41	3.0E-73	BE711238.1	EST_HUMAN	RC8-HT0678-290600-013-HT0678 Homo sapiens cDNA
11910	24897		1.82	3.0E-73	AI004040.1	EST_HUMAN	cu11d02.x1 Soares_NFL_T_98C_S1 Homo sapiens cDNA clone IMAGE:1625955 3'
13118	25730		3.04	3.0E-73	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
13122	25732		2.05	3.0E-73	AW890861.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
874	14050	27115	1.57	2.0E-73	AF139897.1	NT	Homo sapiens BASS1 (BASS1) mRNA, partial cds
2000	15141		9.67	2.0E-73	AW890861.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
2371	15502		1.49	2.0E-73	U01317.1	NT	Human beta globin region on chromosome 11
3249	16423	29440	2.03	2.0E-73	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA

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Table 4
Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3640	16804	29816	0.68	2.0E-73	7695339	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3640	16804	29817	0.68	2.0E-73	7695339	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
4555	17693	33106	1.31	2.0E-73	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
6567	19729	33107	0.59	2.0E-73	AF086824.1	NT	Mus musculus rho/act-interacting cation kinase (Crik) mRNA, complete cds
6567	19729	33107	0.59	2.0E-73	AF086824.1	NT	Mus musculus rho/act-interacting cation kinase (Crik) mRNA, complete cds
6610	19770	33160	5.46	2.0E-73	AB046811.1	NT	Homo sapiens mRNA for KIAA1561 protein, partial cds
6839	19962	33400	1.87	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6839	19962	33401	1.87	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
7984	21033	34546	1.01	2.0E-73	MB94048.1	NT	Human peripheral myelin protein 22 mRNA, complete cds
9732	22767	36370	0.54	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
9732	22767	36371	0.54	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
10637	23671	37281	1.31	2.0E-73	4504168	NT	Homo sapiens glutathione synthetase (GSS) mRNA
10715	23748	37355	1.38	2.0E-73	11496980	NT	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA
10715	23748	37356	1.38	2.0E-73	11496980	NT	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA
11309	24374	38017	2.81	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11309	24374	38018	2.81	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11339	24402	38051	1.44	2.0E-73	AB028982.1	NT	Homo sapiens mRNA for KIAA1059 protein, partial cds
12598	15141	28068	4.32	2.0E-73	AW89081.1	EST_HUMAN	RC3-NN0066-270400-011-c94 NN0066 Homo sapiens cDNA
1824	14973	28068	3.52	1.0E-73	AU121585.1	EST_HUMAN	AU121585 MAMMA1 Homo sapiens cDNA clone MAMMA1000490 5'
6490	19656	33019	1.19	1.0E-73	BE151283.1	EST_HUMAN	CM1-HT0232-111199-042-H10 HT0282 Homo sapiens cDNA
9699	22748	36316	1.22	1.0E-73	AI147427.1	EST_HUMAN	gg61b07.r1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1839837 5' similar to contains element MER22 repetitive element
11736	23922	37547	3.74	1.0E-73	BE385477.1	EST_HUMAN	80127607T1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3617105 5'
12045	25026	38731	1.34	9.0E-74	X77225.1	NT	H. sapiens mRNA for THIA
12045	25026	38732	1.34	9.0E-74	X77225.1	NT	H. sapiens mRNA for THIA
789	13940	26985	4.83	8.0E-74	4557426	NT	Homo sapiens CD39-like 4 (CD39L4) mRNA
6036	19219	32541	1.73	8.0E-74	S63194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rat, brain, mRNA, 3429 nt]
6036	19219	32542	1.73	8.0E-74	S63194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rat, brain, mRNA, 3429 nt]
2004	15144	28249	4.96	7.0E-74	AJ001989.1	NT	Homo sapiens NKG2D gene, exon 10
3407	15577	29562	1.83	7.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9444	22560	36123	1.48	7.0E-74	BE987432.1	EST_HUMAN	801849284F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3932897 5'
12841	25559	31985	4.73	7.0E-74	BE296305.1	EST_HUMAN	801181827F1 NIH_MGC_77 Homo sapiens cDNA clone IMAGE:3538855 5'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1146	14311	27368	3.65	6.0E-74	AF109007.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
1856	14809	27893	1.03	6.0E-74	AW263177.1	EST_HUMAN	nm78g07.x1 Sceres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2700636 3'
2390	15521	28849	15.92	6.0E-74	BE388260.1	EST_HUMAN	601283321F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2390	15521	28650	15.52	6.0E-74	BE388260.1	EST_HUMAN	601283321F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2927	16104	29119	0.97	6.0E-74	AW014039.1	EST_HUMAN	U1H-B10-aah-h-03-0-JJ.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2706365 3'
2927	16104	29120	0.97	6.0E-74	AW014039.1	EST_HUMAN	U1H-B10-aah-h-03-0-JJ.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2706365 3'
3805	16865	29968	1.22	6.0E-74	BE048846.1	EST_HUMAN	hr54e11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3'
3805	16865	29969	1.22	6.0E-74	BE048846.1	EST_HUMAN	hr54e11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3'
5481	16860	31695	3.49	6.0E-74	11056013	NT	Homo sapiens actin filament associated protein (AFAP), mRNA
928	14103	27166	1.93	5.0E-74	AW020986.1	EST_HUMAN	df17c09.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483704 5'
2767	15882		4.96	5.0E-74	AW362756.1	EST_HUMAN	PMO-CT0289-271069-001-H07 CT0289 Homo sapiens cDNA
5523	18720	31736	1.92	5.0E-74	11425417	NT	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
5910	19099	32413	12.5	5.0E-74	X69870.1	NT	H. sapiens mRNA for TPOR16 protein
5961	19147	32462	8.1	5.0E-74	4507865	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
6030	19213	32533	2.94	5.0E-74	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6030	19213	32534	2.94	5.0E-74	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
7035	20171	33593	3.59	5.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
8226	21308	34828	2.33	5.0E-74	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
10973	24053	37686	1.67	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
10973	24053	37687	1.67	5.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
11090	24164	37801	1.36	5.0E-74	5729766	NT	Homo sapiens cell adhesion molecule with homology to L1 CAM (close homologue of L1) (CHL1), mRNA
280	13507	26542	3.31	4.0E-74	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
875	14051	27116	10.3	4.0E-74	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
2018	15158	28262	3.07	4.0E-74	AB028942.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2018	15158	28263	3.07	4.0E-74	AB028942.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2134	15270	28390	9.98	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2134	15270	28391	9.98	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2201	15336	28463	1.32	4.0E-74	AB028942.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2498	15625	28745	1.16	4.0E-74	AJ006976.1	NT	Homo sapiens PLP gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3160	16335	29345	6.22	4.0E-74	AI008976.1	NT	Homo sapiens PLP gene
3616	16780	29795	1.1	4.0E-74	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4174	17324	30315	1.25	4.0E-74	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4679	17814	30802	1.86	4.0E-74	7662183	NT	Homo sapiens KIA0569 gene product (KIA0569), mRNA
4735	17870	30854	1.07	4.0E-74	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
5133	18258	31224	1.03	4.0E-74	AB040809.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
5185	18307	31271	1.12	4.0E-74	4504328	NT	Homo sapiens hydroxycy-Coenzyme A dehydrogenase3-ketocacy-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB), mRNA
5185	18307	31272	1.12	4.0E-74	4504328	NT	Homo sapiens hydroxycy-Coenzyme A dehydrogenase3-ketocacy-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB), mRNA
8747	21828	36394	0.62	3.0E-74	AA300378.1	EST_HUMAN	EST13131 Thymus tumor III Homo sapiens cDNA 5' and similar to similar to ribosomal protein L37
8773	21852	36394	0.62	3.0E-74	9966912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
9572	22714	38282	2.32	3.0E-74	M78984.1	EST_HUMAN	EST01132 Subtracted Hippocampus, Striatum (cat. #636206) Homo sapiens cDNA clone HHCPFe1
10546	23581	37191	2.16	3.0E-74	AA601493.1	EST_HUMAN	not7605.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100984 3'
980	14183	27213	28.83	2.0E-74	7686491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
980	14183	27214	28.83	2.0E-74	7686491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
1202	14364	27424	1.83	2.0E-74	AF020092.1	NT	Human endogenous retrovirus HERV-K-1470
1273	14430	27501	1.44	2.0E-74	AI950528.1	EST_HUMAN	w51407.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2647204 3' similar to SW:GG95_HUMAN
1825	14777	27861	10.45	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR), mRNA
1825	14777	27862	10.45	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR), mRNA
2668	15789	28905	2.18	2.0E-74	AI557280.1	EST_HUMAN	PT2.1_15_G11.1 tumor2 Homo sapiens cDNA 3'
5119	18245	31210	2.52	2.0E-74	AL365092.1	NT	Novel human gene mapping to chromosome 22
5119	18245	31211	2.52	2.0E-74	AL365092.1	NT	Novel human gene mapping to chromosome 22
5919	25813	32419	1.88	2.0E-74	BE711134.1	EST_HUMAN	RC9-HT0878-220600-011-C03 HT0878 Homo sapiens cDNA
6017	25816	32518	1.77	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
6017	25816	32519	1.77	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
6087	25816	32518	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
6087	25816	32519	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
7252	20335	33784	2.5	2.0E-74	BF030784.1	EST_HUMAN	60155724F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827549 5'
8126	21208	34728	1.8	2.0E-74	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9582	22724	36294	5.27	2.0E-74	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
12526	25350		2.87	2.0E-74	AA196181.1	EST_HUMAN	zfp6a06.p1 Stralagene muscle 937209 Homo sapiens cDNA clone IMAGE:628018 3'
13169	26176		1.19	2.0E-74	BF002853.1	EST_HUMAN	7950a08.x1 NCL_CGAP_P128 Homo sapiens cDNA clone IMAGE:3309878 3'
54	13293	26308	1.5	1.0E-74	.7657334	NT	Homo sapiens Missiphen/NIK-related kinase (MINK), mRNA
347	13558	26586	3.71	1.0E-74	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-405 ST0234 Homo sapiens cDNA
512	13708	26734	1.8	1.0E-74	8922829	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
519	13712	26739	2.59	1.0E-74	X02344.1	NT	Homo sapiens beta 2 gene
614	13803	26823	1.28	1.0E-74	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259), mRNA
804	13984	27036	0.86	1.0E-74	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
1024	14195	27253	2.26	1.0E-74	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
2301	15433	28568	6.03	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
3209	16383	29394	2.82	1.0E-74	4756697	NT	Homo sapiens mammoside, alpha, class 2A, member 1 (MAN2A1), mRNA
3460	16627	29646	1.29	1.0E-74	AA258549.1	EST_HUMAN	zfp6c01.r1 Scores_NhHMP_u.S1 Homo sapiens cDNA clone IMAGE:667776 5'
3460	16627	29647	1.29	1.0E-74	AA258549.1	EST_HUMAN	zfp6c01.r1 Scores_NhHMP_u.S1 Homo sapiens cDNA clone IMAGE:667776 5'
4031	17187	30197	0.84	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1), mRNA
4031	17187	30198	0.84	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1), mRNA
4075	17231	30237	5.41	1.0E-74	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4175	17325	30316	0.85	1.0E-74	BE083080.1	EST_HUMAN	RC2-BT0642-270500-019-06 BT0642 Homo sapiens cDNA
4382	17525	30508	0.87	1.0E-74	BE467769.1	EST_HUMAN	hz73p08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3213663 3' similar to WP:B0511.12
6844	19997	33404	1.29	1.0E-74	M89914.1	NT	Human neurofilament (NF1) gene, complete cds
7804	20860	34353	1.05	1.0E-74	11417977	NT	Homo sapiens KIAA0852 protein (KIAA0852), mRNA
8246	21328	34844	1.27	1.0E-74	BE549105.1	EST_HUMAN	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3459260 5'
8246	21328	34845	1.27	1.0E-74	BE549105.1	EST_HUMAN	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3459260 5'
9005	22084	35627	7.81	1.0E-74	AF214582.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
9034	22113	35656	0.97	1.0E-74	BF351651.1	EST_HUMAN	MFO-HT0559-230500-021-a03 HT0559 Homo sapiens cDNA
10445	23480	37088	0.65	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10445	23480	37087	0.65	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10689	23732	37337	1.77	1.0E-74	11420549	NT	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA
12154	25124	38826	1.94	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12258	25182		4.97	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12386	15433	28566	1.61	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12925	25810		1.38	1.0E-74	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds

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Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2709	15827		5.1	8.0E-75	AF176228.1	NT	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B) mRNA, complete cds
12552	25375		3.07	8.0E-75	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2395	15528	28654	1.25	6.0E-75	AB17415.1	EST_HUMAN	wf38a08.x1 NC1_CGAP_P122 Homo sapiens cDNA clone IMAGE:2417654 3' similar to gb:M14123_cds4
11780	24770	38466	1.39	6.0E-75	BE79183.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
9105	22188	35731	1.09	5.0E-75	BE272325.1	EST_HUMAN	6015886109F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3840130 5'
9317	22393	35944	0.77	5.0E-75	AA13261.1	EST_HUMAN	601126088F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2899865 5'
9365	22470	36034	0.47	5.0E-75	BE561655.1	EST_HUMAN	2017e08.r1 Stragene colon (9937204) Homo sapiens cDNA clone IMAGE:587174 5'
9395	22470	36035	0.47	5.0E-75	BE561655.1	EST_HUMAN	601348909F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
9573	22715	36283	1.1	5.0E-75	BF600254.1	EST_HUMAN	601348909F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
10439	23474	37078	2.84	5.0E-75	AB39623.1	EST_HUMAN	602166616T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4298738 3'
115	13346	26373	2.1	4.0E-75	BE081333.1	EST_HUMAN	t81e12.x1 NC1_CGAP_G08 Homo sapiens cDNA clone IMAGE:2242390 3' similar to TR:P97361 P97361
471	13668		1.68	4.0E-75	N36757.1	EST_HUMAN	HYPOTHETICAL 20.1 KD PROTEIN ;
1805	14954	28048	1.08	4.0E-75	AW897230.1	EST_HUMAN	QV1-BT0632-210200-079-e02 BT0632 Homo sapiens cDNA
2910	16088	29101	5.84	4.0E-75	BE409464.1	EST_HUMAN	Yx9h08.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:269055 5'
5848	18840	32120	0.68	4.0E-75		NT	CNG-NN0057-150400-335-e11 NN0057 Homo sapiens cDNA
5848	18840	32120	0.68	4.0E-75		NT	601303866F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3639344 5'
6399	19568	32929	5.18	4.0E-75		NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6898	20048	33458	1.4	4.0E-75	11417846	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6898	20048	33459	1.4	4.0E-75	11417846	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
10924	24007	37642	10.52	4.0E-75	7686506	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
1027	14198	27256	3.8	3.0E-75	AF157623.1	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
1028	14198	27256	3.59	3.0E-75	AF157623.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1883	15027	28134	2.23	3.0E-75	AB011153.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
2180	15315	28444	1.44	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
2494	15621	28740	4.39	3.0E-75	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
3096	16262	29279	0.96	3.0E-75	AL163201.2	NT	Homo sapiens synaptoosomal-associated protein, 29KD (SNAP29) mRNA
3258	16432	29449	1.09	3.0E-75	AB011153.1	NT	Homo sapiens chromosome 21 segment HS21C001
3431	16599	29616	0.93	3.0E-75	M72393.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
3431	16599	29617	0.93	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3833	16993	29695	0.8	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4283	17428	30418	2.92	3.0E-75	D87675.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
5365	18688	31434	1.15	3.0E-75	11420956	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
							Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5365	18598	31435	1.15	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
6637	19796	33185	0.59	3.0E-75	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6637	19796	33186	0.59	3.0E-75	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6909	20224	33654	1.57	3.0E-75	11526318	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6909	20224	33655	1.57	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7285	20368	33821	4.12	3.0E-75	7692209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7285	20368	33822	4.12	3.0E-75	7692209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7800	20856	34346	2.66	3.0E-75	4835632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
7800	20856	34347	2.66	3.0E-75	4835632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
9185	22263	35805	1.33	3.0E-75	11420804	NT	Homo sapiens snail 1 (drosophila homolog), zinc finger protein (SNA1), mRNA
9880	22920	36504	0.83	3.0E-75	11420222	NT	Homo sapiens Drosophila Kech like protein (DKELCHL), mRNA
5790	18982		1.34	2.0E-75	AV734680.1	EST_HUMAN	AV734680 cDNA Homo sapiens cDNA clone c0ABED02.5
8950	22029	35570	1.36	2.0E-75	AI311783.1	EST_HUMAN	gc81a02.x1 NCL CGAP_Uk1 Homo sapiens cDNA clone IMAGE:2632707.3 similar to TR:Q69386 Q69386
2377	15508	28635	10.98	1.0E-75	AW168135.1	EST_HUMAN	POUENY GENE ;
3012	16188	29213	2.95	1.0E-75	X52221.1	NT	xg60d02.x1 NCL CGAP_Uk1 Homo sapiens cDNA clone IMAGE:2632707.3 similar to contains PTR7.11
7762	20821	34311	0.64	1.0E-75	BE082528.1	EST_HUMAN	PTR7 repetitive element ;
7762	20821	34312	0.64	1.0E-75	BE082528.1	EST_HUMAN	H. sapiens ERCC2 gene, exons 1 & 2 (partial)
8609	21689		3.12	1.0E-75	AA399270.1	EST_HUMAN	RCS-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA
9628	22683	36253	3.95	1.0E-75	BF313645.1	EST_HUMAN	RCS-BT0640-020300-031-H03 BT0640 Homo sapiens cDNA
9628	22683	36254	3.95	1.0E-75	BF313645.1	EST_HUMAN	z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
11122	24194		6.68	1.0E-75	AA664377.1	EST_HUMAN	RIBOSOMAL PROTEIN S17 (HUMAN);
11351	24413	38067	2.22	1.0E-75	AF223391.1	NT	spliced
12440	18502	31538	1.97	1.0E-75	BE894192.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
45	13284	26292	0.89	9.0E-76	AI652648.1	EST_HUMAN	w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
45	13284	26293	0.89	9.0E-76	AI652648.1	EST_HUMAN	TRAP1 ;
2486	15813		0.94	9.0E-76	AA702415.1	EST_HUMAN	w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
							spliced
							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
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							TRAP1 ;
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
							spliced
							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
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							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
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							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
							spliced
							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
							spliced
							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
							spliced
							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							w630b10.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2307163.3 similar to TR:O75235 O75235
							TRAP1 ;
							z157h03.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:728485.3 similar to gb:M13632.40S
							spliced
							601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303.5
							w630b

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10106	23143	36741	5.44	9.0E-78	M12937.1	NT	Human ferritin Heavy subunit mRNA, complete cds
981	14134	27184	1.18	8.0E-78	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
981	14134	27185	1.18	8.0E-78	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
2876	18152	28173	0.95	8.0E-78	7708724	NT	Homo sapiens mediator (Sur2), mRNA
6300	19473	32828	5.84	8.0E-78	11421442	NT	Homo sapiens LIM domain kinase 1 (LIMK1), mRNA
7838	20725	34200	1.17	8.0E-78	11436215	NT	Homo sapiens serine/threonine kinase 2 (STK2), mRNA
7739	20800	34289	1.05	8.0E-78	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC65972), mRNA
8482	21873	36110	0.88	8.0E-78	11418861	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
10589	23824	37231	1.28	8.0E-78	M13792.1	NT	Human adenosine deaminase (ADA) gene, complete cds
10903	23987	37619	4.29	8.0E-78	10442821	NT	Homo sapiens baculoviral IAP repeat-containing 6 (BIRC6), mRNA
12824	25550		2.51	8.0E-78	11417882	NT	Homo sapiens calcineurin binding protein 1 (KIAA0930), mRNA
787	13876	27028	1.89	7.0E-78	5016092	NT	Homo sapiens dihydropyrimidine dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
3366	16338	29551	3.84	7.0E-78	AF056480.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
3372	18544	29568	9.08	7.0E-78	4505052	NT	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products
4491	17831	30612	5.62	7.0E-78	4507184	NT	Homo sapiens sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
4491	17831	30613	5.52	7.0E-78	4507184	NT	Homo sapiens sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
1282	14418		37.29	6.0E-78	BE398263.1	EST_HUMAN	601312018F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658757 5'
11753	23939	37565	2.52	6.0E-78	BE279201.1	EST_HUMAN	601142253F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506029 5'
1997	15138	28243	9.81	5.0E-78	D63874.1	NT	Human mRNA for HMG-1, complete cds
1997	15138	28244	9.81	5.0E-78	D63874.1	NT	Human mRNA for HMG-1, complete cds
1997	15138	28245	9.81	5.0E-78	D63874.1	NT	Human mRNA for HMG-1, complete cds
3278	18452	28473	0.84	4.0E-78	BE814088.1	EST_HUMAN	QV3-BN0047-270700-283-g06 BN0047 Homo sapiens cDNA
5384	18586	31455	1.13	4.0E-78	BE783412.1	EST_HUMAN	60147125F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874470 6'
10230	23265	38864	5.48	4.0E-78	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (Tfujizawa) Homo sapiens cDNA clone GEN-178G01 5'
10230	23286	38855	6.48	4.0E-78	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (Tfujizawa) Homo sapiens cDNA clone GEN-178G01 6'
648	13831	28856	2.01	3.0E-78	BF516262.1	EST_HUMAN	U1H-BW1-anz-b-04-q-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
648	13831	28857	2.01	3.0E-78	BF516262.1	EST_HUMAN	U1H-BW1-anz-b-04-q-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
1829	14781	27866	8.04	3.0E-78	4503478	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1629	14781	27867	8.04	3.0E-78	4503478	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3515	16881	28691	6.75	3.0E-78	BF375889.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
3516	16881	28692	5.78	3.0E-78	BF375889.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
5352	18480	38822	1.82	3.0E-78	Z41314.1	EST_HUMAN	HSCZQD042 normalized infant brain cDNA Homo sapiens cDNA clone c-zqd04 3'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5851	19041	32347	0.92	3.0E-76	AA160611.1	EST_HUMAN	z78c07.r1 Stratagene pancreas (#837208) Homo sapiens cDNA clone IMAGE:592524 5' similar to gb:L32976 MIXED LINEAGE KINASE 1 (HUMAN);
6110	19290	32625	0.61	3.0E-76	AW027705.1	EST_HUMAN	w75c05.x1 Scarsa_thymus_NHFTb Homo sapiens cDNA clone IMAGE:2535368 3'
6498	19684	33027	8.19	3.0E-76	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
8344	21425	34951	1.27	3.0E-76	N42871.1	EST_HUMAN	y20g10.r1 Scarsa_melanocyte2NtHm Homo sapiens cDNA clone IMAGE:271842 5'
9917	22957	36544	3.03	3.0E-76	AW296533.1	EST_HUMAN	xe48r01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:273009 3'
9942	22881	36872	1.08	3.0E-76	AA442309.1	EST_HUMAN	z554d11.r1 Scarsa_testis_NHT Homo sapiens cDNA clone IMAGE:767461 5'
9942	22981	36573	1.08	3.0E-76	AA442309.1	EST_HUMAN	z554d11.r1 Scarsa_testis_NHT Homo sapiens cDNA clone IMAGE:767461 5'
12144	26943	31763	2.1	3.0E-76	AW967084.1	EST_HUMAN	EST380059 IMAGE resequences, MAGJ Homo sapiens cDNA
12251	26184	31542	6.95	3.0E-76	AW956456.1	EST_HUMAN	EST388525 IMAGE resequences, MAGJ Homo sapiens cDNA
292	13509	26544	1.11	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
352	13563	26590	3.21	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
352	13563	26591	3.21	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
473	13668		0.86	2.0E-76	4587862	NT	Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA
603	13782	26812	1.07	2.0E-76	4503944	NT	Homo sapiens glucagon (GCG) mRNA
1056	14222	27281	1.88	2.0E-76	4768053	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
1568	14719	27789	11.31	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1568	14719	27800	11.31	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1982	15125	28227	0.99	2.0E-76	AA253954.1	EST_HUMAN	z860h11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:701925 3'
2904	16082	29097	2.13	2.0E-76	P23266	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN F5
3369	16541	29555	2.21	2.0E-76	AA445992.1	EST_HUMAN	z64e02.s1 Scarsa_testis_NHT Homo sapiens cDNA clone IMAGE:780986 3' similar to SW:ITB5_HUMAN
3369	16541	29556	2.21	2.0E-76	AA445992.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
3369	16541	29556	2.21	2.0E-76	AA445992.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
3665	16730	29746	0.83	2.0E-76	AB21149.1	EST_HUMAN	ac83b02.y6 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:868163 5' similar to TR:O14891
4254	13509	26844	1.01	2.0E-76	D84295.1	NT	O14591 SIMILARITY TO P22059 ;
4653	17789	30773	0.91	2.0E-76	AL163283.2	NT	Human mRNA for possible protein TPRDII, complete cds
5062	18190	31165	11.15	2.0E-76	AW879618.1	EST_HUMAN	Human sapiens chromosome 21 segment HS21C083
5163	18285	31249	3.13	2.0E-76	5174586	NT	QV3-OT0028-220300-132-b11 OT0028 Homo sapiens cDNA
5424	18825		2.99	2.0E-76	AF127845.1	NT	Homo sapiens murine retrovirus integration site 1 homolog (MRV1) mRNA
5736	18929	32226	4.83	2.0E-76	AB029004.1	NT	Gonilla gonilla olfactory receptor (GGO18) gene, partial cds
7570	20642	34119	0.66	2.0E-76	11421328	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
7592	20693	34139	0.69	2.0E-76	11426908	NT	Homo sapiens A kinase (PRKA) anchor protein 10 (AKAP10), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7840	20896	34397	1.82	2.0E-76	11427410	NT	Homo sapiens TPCR86 protein (HSPCR86P), mRNA
10489	23524	37134	1.42	2.0E-76	11437211	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63150), mRNA
11161	24232	37862	2.44	2.0E-76	7849807	NT	Homo sapiens HIRA interacting protein 4 (dnal-like) (HIRIP4), mRNA
4412	17564	30589	2.49	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
4412	17564	30540	2.49	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5564	18761	31801	5.83	1.0E-76	BE796537.1	EST_HUMAN	601589896F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
6374	19543		0.7	1.0E-76	A433207.1	EST_HUMAN	EST137301 Embryo, 8 week 1 Homo sapiens cDNA 5' and
7063	20116	33530	4.56	9.0E-77	BE889526.1	EST_HUMAN	601612439F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913737 5'
13003	25662		1.98	9.0E-77	BE410354.1	EST_HUMAN	601302339F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636753 5'
192	13414	26443	0.77	8.0E-77	R83144.1	EST_HUMAN	y911h02.1 Soares breast 3NtHBat Homo sapiens cDNA clone IMAGE:187155 5' similar to
4844	17780	30762	1.41	8.0E-77	BF206181.1	EST_HUMAN	SP-ANKB_HUMAN Q01484 ANKYRIN, BRAIN VARIANT 1;
5569	18766	31807	1.37	8.0E-77	4508230	NT	601856926F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4106503 5'
11669	24748	38438	1.78	8.0E-77	AA019770.1	EST_HUMAN	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mcr34 homolog) (PSMD7) mRNA
11669	24748	38439	1.78	8.0E-77	AA019770.1	EST_HUMAN	ze62e02.1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'
12978	25637	31982	32.5	8.0E-77	R00245.1	EST_HUMAN	ze62e02.1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'
1983	15126	28228	2.2	7.0E-77	AA025755.1	EST_HUMAN	y659f04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains MER10 repetitive element;
2482	15608	28733	2.78	7.0E-77	4505944	NT	zu91g01.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:745392 3'
2492	15609	28734	2.78	7.0E-77	4505944	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (29kD) (POLR2E) mRNA
273	13491	26522	4	6.0E-77	4504800	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (29kD) (POLR2E) mRNA
1165	14329	27384	1.05	6.0E-77	AW957753.1	EST_HUMAN	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2) mRNA
1674	14727	27808	3.29	6.0E-77	A1204066.1	EST_HUMAN	EST369823 IMAGE resesquences, IMAGE Homo sapiens cDNA
1264	14421	27496	2.89	5.0E-77	AF041015.1	NT	qr77h12.x1 Soares fetal lung_NbHL10W Homo sapiens cDNA clone IMAGE:1745063 3'
1391	14545	27621	3.46	5.0E-77	4557250	NT	7 Homo sapiens glucokinase (GCK) gene, exon 2
2749	15986	28977	1.75	5.0E-77	AF162666.1	NT	Homo sapiens glucokinase (GCK) gene, exon 2
2822	15939	29046	1.58	5.0E-77	4503160	NT	Homo sapiens glucokinase (GCK) gene, exon 2
3811	16775	29781	0.65	5.0E-77	6304516	NT	Homo sapiens glucokinase (GCK) gene, exon 2
4825	17958	30944	0.97	5.0E-77	5031600	NT	Homo sapiens glucokinase (GCK) gene, exon 2
4825	17958	30945	0.97	5.0E-77	5031660	NT	Homo sapiens glucokinase (GCK) gene, exon 2
5052	18180	31166	3.67	5.0E-77	AL043963.1	EST_HUMAN	Homo sapiens glucokinase (GCK) gene, exon 2
6922	20237	33671	0.65	6.0E-77	MT3975.1	NT	DKFZp434G1728.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434G1728 5'
7480	20555	34027	0.98	5.0E-77	X98296.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
							Hi.sapiens mRNA for ubiquitin hydrolase

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7787	20555	34027	0.72	5.0E-77	X98296.1	NT	H: sapiens mRNA for ubiquitin hydrolase
8563	21644	35183	1.21	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
8563	21644	35184	1.21	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
9769	22765	36335	2.61	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
9769	22765	36336	2.61	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
10708	23741	37346	0.97	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
10708	23741	37347	0.97	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
2029	15170	28277	1.39	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
2029	15170	28278	1.39	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10496	23531	37139	0.9	3.0E-77	H65167.1	EST_HUMAN	y064901.1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RYZG5 - ;
10496	23531	37140	0.9	3.0E-77	H65167.1	EST_HUMAN	y064901.1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RYZG5 - ;
11115	24187	37810	2.83	3.0E-77	BF355917.1	EST_HUMAN	PM3-MT0078-080800-005-g03.MT0078 Homo sapiens cDNA
1383	14538	27612	1.74	2.0E-77	AV764817.1	EST_HUMAN	AV764817 MDS Homo sapiens cDNA clone MDSBTF10 5'
1484	14618	27702	9.74	2.0E-77	AW987712.1	EST_HUMAN	RC3-BN0053-170200-011-101 BN0053 Homo sapiens cDNA
2157	15283	28419	1.1	2.0E-77	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
2170	15305	28432	2.75	2.0E-77	7706315	NT	Homo sapiens CGL-79 protein (LOC51634), mRNA
2659	16067	28895	1.69	2.0E-77	AB037839.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2659	16067	28896	1.69	2.0E-77	AB037838.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
4143	17295	30287	1.98	2.0E-77	BE04318.1	EST_HUMAN	hw43505.x1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2_HUMAN P10294 RETROVIRUS-RELATED GAG POLYPROTEIN ;
4534	17672	30856	0.87	2.0E-77	A1513519.1	EST_HUMAN	hw22602.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2280466 3' similar to TR:O65245
4534	17672	30857	0.87	2.0E-77	A1513519.1	EST_HUMAN	hw22602.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2280466 3' similar to TR:O65245
4891	18021	31006	2.34	2.0E-77	AA653025.1	EST_HUMAN	ms68q12.s1 NCI_CGAP_P12 Homo sapiens cDNA clone IMAGE:1188638 similar to SW:RL28_HUMAN p47914 60S RIBOSOMAL PROTEIN L28, [1] contains element MSR1 repetitive element ;
6075	19257	32586	2.08	2.0E-77	BE296940.1	EST_HUMAN	601119852F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028436 5'
6301	19474	32829	1.86	2.0E-77	BE787143.1	EST_HUMAN	601476802F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3879505 5'
7325	20407	33869	15.02	2.0E-77	A1833003.1	EST_HUMAN	at74a09.x1 Barstead cdon HPLRB7 Homo sapiens cDNA clone IMAGE:2377720 3' similar to TR:Q13311 Q13311 TAX1-BINDING PROTEIN TXBP151, [1] ;

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8726	21806	35343	0.86	2.0E-77	AI362707.1	EST_HUMAN	qy7dc09.x1 NC1_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2017360 3' similar to WP:F29D11.1
8728	22793	36366	5.68	2.0E-77	U50321.1	NT	CE05766 LOW DENSITY LIPID RECEPTOR-RELATED PROTEIN;
9726	22793	36367	5.68	2.0E-77	U50321.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
10199	23236	36826	0.47	2.0E-77	BF310349.1	EST_HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
10199	23236	36826	0.47	2.0E-77	BF310349.1	EST_HUMAN	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
44	13262	26288	2.62	1.0E-77	AB033102.1	NT	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
44	13262	26288	2.62	1.0E-77	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
283	13501	26533	1.68	1.0E-77	4502166	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
283	13501	26534	1.68	1.0E-77	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
898	16025	27140	3.4	1.0E-77	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
898	16025	27141	3.4	1.0E-77	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1969	15112	28213	1.36	1.0E-77	AW058119.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2516	15641	28763	1.17	1.0E-77	AB029024.1	NT	w63605.x1 Soares_thymus_NHFTn Homo sapiens cDNA clone IMAGE:2536160 3'
3110	16286	29300	2.26	1.0E-77	4503302	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
4473	17813	30592	4.24	1.0E-77	7708269	NT	Homo sapiens 2,4-dienoyl CoA reductase 1, mitochondrial (DECR1), mRNA
4646	17782	30764	22.17	1.0E-77	AJ229041.1	NT	Homo sapiens CGI-60 protein (LOC51629), mRNA
4774	17909	30892	2.05	1.0E-77	6552322	NT	Homo sapiens 959 kb contig between AML1 and CBRT on chromosome 21q22: segment 1/3
4816	17948	30933	0.67	1.0E-77	AI273014.1	EST_HUMAN	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-exon4, mRNA
6051	19233	32557	1.48	1.0E-77	AF086944.1	NT	Homo sapiens CGAP_Kid8 Homo sapiens cDNA clone IMAGE:1981110 3'
6051	19233	32558	1.48	1.0E-77	AF086944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
6172	19348	32694	1.72	1.0E-77	M25844.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
6577	19739	33120	1.1	1.0E-77	4885182	NT	Homo sapiens dynactin 1 (DCTN1) gene, exon 20
7198	20093	33473	15.97	1.0E-77	6881412	NT	Homo sapiens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA
7844	20969	34402	0.82	1.0E-77	11420159	NT	Homo sapiens elastin (supravulvular aortic stenosis, Williams-Beuren syndrome) (ELN), mRNA
7940	20990	34500	0.71	1.0E-77	X04571.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
9465	22522	36085	0.83	1.0E-77	X94354.1	NT	H. sapiens DNA for Core cGMP-PDE gene
9465	22522	36086	0.83	1.0E-77	X94354.1	NT	H. sapiens DNA for Core cGMP-PDE gene
10742	23775	37387	1.05	1.0E-77	AB028396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10742	23775	37388	1.05	1.0E-77	AB028396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10773	23806	37429	2.76	9.0E-78	AW763302.1	EST_HUMAN	RC3-CT0264-280999-011-b05 CT0264 Homo sapiens cDNA
6576	19738	33118	2.29	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-e05 ET0023 Homo sapiens cDNA
6576	19738	33118	2.29	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-e05 ET0023 Homo sapiens cDNA
89	13323	26351	1.66	6.0E-78	AU118788.1	EST_HUMAN	AU118788 HEMBA1 Homo sapiens cDNA clone HEMBA1004364 5'
89	13323	26352	1.66	6.0E-78	AU118788.1	EST_HUMAN	AU118788 HEMBA1 Homo sapiens cDNA clone HEMBA1004364 5'
3389	16559	29574	0.9	6.0E-78	BF344101.1	EST_HUMAN	302016028F1 NCL_CGAP_Bim84 Homo sapiens cDNA clone IMAGE:4152511 5'
6690	19848		2.54	6.0E-78	11432710	NT	Homo sapiens GDNF family receptor alpha 1 (GFRA1), mRNA
224	13448	26474	6.13	5.0E-78	11422486	NT	Homo sapiens hypothetical protein FLJ11318 (FLJ11316), mRNA
2629	16752	28887	5.71	5.0E-78	AW673424.1	EST_HUMAN	ba64h03.v3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900405 5' similar to WP:Y48B6A.6
3472	16639	29659	5.09	5.0E-78	M55586.1	NT	CE22121 ;
5528	18725	31741	2.73	5.0E-78	AF038536.1	NT	Human collagenase type IV (CLG4) gene, exon 6
5903	18837	32177	18.13	5.0E-78	11416585	NT	Homo sapiens Best's macular dystrophy related protein mRNA, partial cds
7304	20388	33846	2.18	5.0E-78	AW933120.1	EST_HUMAN	Homo sapiens transforming growth factor, beta-induced, 88kD (TGFB1), mRNA
9284	22360	35910	7.02	5.0E-78	U60899.1	NT	EST365180 MAGI sequences, MAGB Homo sapiens cDNA
9285	22361	35911	2.94	5.0E-78	BE980836.1	EST_HUMAN	Human lysosomal alpha-mannosidase (manB) gene, exon 7
1160	14324	27379	1.29	4.0E-78	AL043314.2	EST_HUMAN	601848061F1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3931887 5'
1547	14699	27778	1.81	4.0E-78	AL355841.1	NT	DKFZp434N0323_J1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
2392	15523	28652	5.1	4.0E-78	AF107405.1	NT	Novel human gene mapping to chromosome 22
4442	17582	30560	6.17	4.0E-78	766878	NT	Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
4896	18026	31012	1.2	4.0E-78	4505806	NT	Homo sapiens syncytin (LOC30818), mRNA
4896	18026	31013	1.2	4.0E-78	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
5888	19076	32385	1.25	4.0E-78	11420732	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
6802	19475	32830	0.71	4.0E-78	7662109	NT	Homo sapiens SFRS3 protein kinase 2 (SRPK2), mRNA
6703	19861	33261	0.74	4.0E-78	4506736	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
7690	20727	34203	0.69	4.0E-78	4506736	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
9054	22133	35677	1.15	4.0E-78	AF012872.1	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
9054	22133	35678	1.15	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
9568	22710	36278	0.61	4.0E-78	11417251	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
10660	23694	37303	1.95	4.0E-78	11560151	NT	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), mRNA
10660	23694	37304	1.95	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
11705	24702	38394	1.84	4.0E-78	AF169148.1	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11854	24842	38538	6.72	4.0E-78	X05944.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12855	25568	31991	3.93	4.0E-78	AB011399.1	NT	Homo sapiens gene for AF-5, complete cds
165	13390	28417	1.69	3.0E-78	AF095901.1	NT	Homo sapiens eRF1 gene, complete cds
165	13390	28418	1.69	3.0E-78	AF095901.1	NT	Homo sapiens eRF1 gene, complete cds
2488	15615	28736	1.01	3.0E-78	7706705	NT	Homo sapiens SH3 and PX domain-containing protein SH3PX1 (SH3PX1), mRNA
3850	17020		0.81	3.0E-78	AU140504.1	EST_HUMAN	AU140504 PLAC3 Homo sapiens cDNA clone PLAC3000373 5'
3918	17077	30074	0.78	3.0E-78	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
4221	17077	30074	0.82	3.0E-78	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
10493	23528		5.44	3.0E-78	BE144758.1	EST_HUMAN	QMO-HT0180-041059-065-c07 HT0180 Homo sapiens cDNA
11227	24296	37937	2.5	3.0E-78	BE156318.1	EST_HUMAN	QV0-HT0367-150200-114-g09 HT0367 Homo sapiens cDNA
3191	16366		2.49	2.0E-78	U04489.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 20
4122	17276		1.99	2.0E-78	AA311872.1	EST_HUMAN	EST1182583 Jurkat T-cells VI Homo sapiens cDNA 5' end
7631	20760	34177	1.09	2.0E-78	AW402306.1	EST_HUMAN	UI-HF-BK0-aaj-g-10-0-UL-1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'
7031	20700	34178	1.09	2.0E-78	AW402306.1	EST_HUMAN	UI-HF-BK0-aaj-g-10-0-UL-1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'
7908	20960	34466	3.36	2.0E-78	BF669800.1	EST_HUMAN	G02186529F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4298599 5'
8230	21312	34832	2.49	2.0E-78	AV714177.1	EST_HUMAN	AV714177 DGB Homo sapiens cDNA clone DCBAW/F08 5'
8646	21726	35282	1.72	2.0E-78	AI557509.1	EST_HUMAN	P12.1_16_B07.r tumor2 Homo sapiens cDNA 3'
8646	21726	35263	1.72	2.0E-78	AI657509.1	EST_HUMAN	P12.1_16_B07.r tumor2 Homo sapiens cDNA 3'
11336	24399	38048	9.59	2.0E-78	AI197837.1	EST_HUMAN	q50h065.x1 NCI_CGAP_Bn26 Homo sapiens cDNA clone IMAGE:1859981 3' similar to WP:R90.1
11358	24420		1.47	2.0E-78	BE439405.1	EST_HUMAN	CE06325 PROTEIN KINASE ;
11368	24447	38108	3.01	2.0E-78	BE439405.1	EST_HUMAN	HTMI-025F1 HTM1 Homo sapiens cDNA
5420	18621	31597	3.16	1.0E-78	N68861.1	NT	z44812.s1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:265823 3'
7094	18521	31514	0.82	1.0E-78	AV648699.1	EST_HUMAN	Homo sapiens GAP-like protein (LOC61306), mRNA
8353	21434		1.81	1.0E-78	U52373.1	NT	AV648699 GLC Homo sapiens cDNA clone GLOBMCO1 3'
12324	26234	32107	1.83	1.0E-78	11430480	NT	Human serine/threonine kinase MNB (mnb) mRNA, complete cds
12422	25299	32086	2.44	1.0E-78	11435903	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4820	17953	30938	4.04	9.0E-79	11525981	NT	Homo sapiens similar to lymphocyte activation-associated protein (H. sapiens) (LOC63140), mRNA
4966	18115	31093	1.6	9.0E-79	BE000837.1	EST_HUMAN	Homo sapiens peptide YY (PYY), mRNA
5549	18146	31781	16.98	9.0E-79	AB028070.1	NT	RC2-BN007-4-090300-014-012 BN0074 Homo sapiens cDNA
6470	19637	32996	2.52	9.0E-79	5454145	NT	Homo sapiens mRNA for activator of S phase Kinase, complete cds
6752	19908	33301	0.98	9.0E-78	11430822	NT	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5) (UBE2E3) mRNA
							Homo sapiens hypothetical protein FLJ11294 (FLJ11294), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7506	25846		0.99	9.0E-79	11424427	NT	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
7748	20808	34298	0.63	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L16.1), mRNA
7748	20808	34299	0.63	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L16.1), mRNA
8541	21622	35158	0.52	9.0E-79	11417280	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8541	21622	35159	0.52	9.0E-79	11417280	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
9263	22340	35890	4.78	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9263	22340	35891	4.78	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9580	22722	36292	0.66	9.0E-79	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10574	23609	37214	0.82	9.0E-79	11438843	NT	Homo sapiens hypothetical protein FLJ20535 (FLJ20535), mRNA
10632	23666	37274	1.05	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216), mRNA, complete cds
10632	23666	37275	1.05	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216), mRNA, complete cds
11322	24385	38029	1.61	9.0E-79	AY008273.1	NT	Homo sapiens TRAF6-regulated IKK activator 1 beta Uev1A mRNA, complete cds
11802	24792	38489	2.94	9.0E-79	11423827	NT	Homo sapiens suppressor of white apical homolog 2 (SWAP2), mRNA
11802	24792	38490	2.94	9.0E-79	11423827	NT	Homo sapiens suppressor of white apical homolog 2 (SWAP2), mRNA
13088	25711	31987	1.4	9.0E-79	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
3836	16996	29998	1.18	8.0E-79	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
3325	18498	29516	6.36	7.0E-79	BE619848.1	EST_HUMAN	801472768T1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3875657 3'
8844	21923		0.62	6.0E-79	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12109	25132		5.44	6.0E-79	AA699829.1	EST_HUMAN	294604.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462858 3' similar to TR:Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ;
11786	24776	38473	3.63	5.0E-79	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
323	13537	26569	1.74	3.0E-79	AF114488.1	NT	Homo sapiens interocin short isoform (ITSN), mRNA, complete cds
1001	14172	27233	1.22	3.0E-79	AF232708.1	NT	Homo sapiens cell-line tSA201 a chloride ion current inducer protein (Cln) gene, complete cds
3168	16343	29351	1.74	3.0E-79	U09410.1	NT	Human zinc finger protein ZNF131 mRNA, partial cds
5477	18678	31689	7.05	3.0E-79	AF110322.1	NT	Homo sapiens MSTP016 (MST016), mRNA, complete cds
5847	19031	32337	1.69	3.0E-79	AB020699.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds
5866	19096	32363	0.93	3.0E-79	BE789470.1	EST_HUMAN	801482143F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3884554 5'
5866	19096	32364	0.93	3.0E-79	BE789470.1	EST_HUMAN	801482143F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3884554 5'
5889	19077	32386	3.87	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
5889	19077	32387	3.87	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
6884	20036	33445	0.84	3.0E-79	BE258983.1	EST_HUMAN	801112055F1 NIH_MGC 16 Homo sapiens cDNA clone IMAGE:3362885 5'
7206	20071	33481	2.58	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
7206	20071	33482	2.58	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
8012	21062	34574	0.87	3.0E-79	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8358	21439	34961	0.78	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
8903	22658	36230	0.59	3.0E-79	10835036	NT	Homo sapiens tetraicopeptide repeat domain 3 (TTCC3), mRNA
10865	23590		0.82	3.0E-79	AV698115.1	EST_HUMAN	AV698115 GKC Homo sapiens cDNA clone GKCAHE11 5'
288	13515		1.4	2.0E-79	H63129.1	EST_HUMAN	Y48103.31 Soares fetal liver spleen 1NPLS Homo sapiens cDNA clone IMAGE:208541 3'
651	13837	26864	1.05	2.0E-79	BE370926.1	EST_HUMAN	601159415F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511107 5'
951	14124	27188	1.14	2.0E-79	475784.1	NT	Homo sapiens BCL2-like 2 (BCL2L2), mRNA
1007	14178	27239	4.97	2.0E-79	4895234	NT	Homo sapiens Gardiner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR) mRNA
1007	14178	27240	4.97	2.0E-79	4895234	NT	Homo sapiens Gardiner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog (FGR) mRNA
1060	14226		2.15	2.0E-79	AI623747.1	EST_HUMAN	th18107.X1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2118685 3'
2215	15349	28478	6.17	2.0E-79	4585963	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2215	15349	28478	6.17	2.0E-79	4585963	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2268	15399	28527	1.35	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
2387	15518	28648	1.1	2.0E-79	AF244138.1	NT	Homo sapiens hepatocellular carcinoma-associated antigen 88 (HCA88) mRNA, complete cds
2780	15898	29008	1.2	2.0E-79	AB023154.1	NT	Homo sapiens mRNA for KIAA0937 protein, partial cds
4023	17179	30188	0.69	2.0E-79	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
4280	17426	30414	1.25	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
4813	17846	30831	0.83	2.0E-79	AL183206.2	NT	Homo sapiens chromosome 21 segment HS21C008
6788	18980		1.06	2.0E-79	AA312223.1	EST_HUMAN	EST182928 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to C. elegans hypothetical protein, cernid B0303.15
5844	19034	32340	0.9	2.0E-79	11181769	NT	Homo sapiens X transporter protein 3 (XT3), mRNA
6873	19542	3280.1	1.19	2.0E-79	AB020637.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
7100	18527	31519	0.69	2.0E-79	AF263613.1	NT	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds
7317	20398	33861	2.09	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript variant 4, mRNA
7317	20398	33862	2.09	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript variant 4, mRNA
8292	21374	34894	1.1	2.0E-79	4506442	NT	Homo sapiens retinoblastoma-like 1 (p107) (RBL1) mRNA
8714	21784	35331	2.13	2.0E-79	11427428	NT	Homo sapiens hypothetical protein FLJ11008 (FLJ11008), mRNA
8965	22044	35587	0.55	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20276 (FLJ20276), mRNA
8965	22044	35588	0.55	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20276 (FLJ20276), mRNA
9205	22283	35823	0.69	2.0E-79	11492184	NT	Homo sapiens similar to A1Pase, H+ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein M8-9 (H. sapiens) (LOC63961), mRNA
10297	23332	36935	1.88	2.0E-79	S72869.1	NT	H4(D105170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
10297	23332	36936	1.88	2.0E-79	S72869.1	NT	H4(D105170)=putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
11284	24350	37987	2.94	2.0E-79	BE084398.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA

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Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11284	24350	37988	2.84	2.0E-79	BE064385.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
12208	18498	31534	4.27	2.0E-79	7682357	NT	Homo sapiens KIAA0879 protein (KIAA0879), mRNA
12298	25219	32100	2.3	2.0E-79	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
12531	25362	32067	3.08	2.0E-79	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
6718	25630		3.28	1.0E-79	BF363071.1	EST_HUMAN	MRO-NN0087-260600-017-b10 NN0087 Homo sapiens cDNA
6833	19866	33394	0.65	1.0E-79	AI613480.1	EST_HUMAN	U37609.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:2281286 3' similar to TR:Q26623 Q26623 TEKTIN C1.
6833	19866	33395	0.65	1.0E-79	AI613480.1	EST_HUMAN	U37609.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:2281286 3' similar to TR:Q26623 Q26623 TEKTIN C1.
8439	21520	35049	0.9	1.0E-79	BE394211.1	EST_HUMAN	801311517F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632809 5'
11922	24808	38609	1.9	1.0E-79	BF087405.1	EST_HUMAN	QV2-HT0540-120900-358-ad05 HT0540 Homo sapiens cDNA
12328	28107		1.44	1.0E-79	AI490115.1	EST_HUMAN	4779a04.x1 Batstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151438 3'
3215	16389	29389	6.95	9.0E-80	AA725848.1	EST_HUMAN	a23a05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
3215	16389	29400	6.95	9.0E-80	AA725848.1	EST_HUMAN	a23a05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
10217	23253	36942	1.3	9.0E-80	BE798603.1	EST_HUMAN	501581652F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936061 5'
11554	24609	38288	7.93	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (SLC7A8), mRNA
11554	24609	38289	7.63	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (SLC7A8), mRNA
3691	16953		1.01	8.0E-80	U94397.1	NT	Homo sapiens Y chromosome spermatogenesis candidate protein (RBM) pseudogene mRNA, partial cds
7780	20936	34328	2.82	8.0E-80	11422847	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
7780	20936	34329	2.82	8.0E-80	11422847	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
9602	22957	36228	2.2	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9602	22957	36229	2.2	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
7114	18540	31497	0.61	7.0E-80	AF127882.1	NT	Caullerix jacchus olfactory receptor (CJA80) gene, partial cds
923	14098	27162	0.74	6.0E-80	AI422197.1	EST_HUMAN	458402.x1 NCL_CGAP_Bn23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN
1875	14827	27910	2.41	6.0E-80	U64898.1	NT	Q18785 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR :
2372	15603	28628	1.14	6.0E-80	6631094	NT	Homo sapiens NRD conversase mRNA, complete cds
2372	15603	28629	1.14	6.0E-80	6631094	NT	Homo sapiens minichromosome maintenance deficient (S. cerevisiae) 3 (MCM3), mRNA
5822	19109	32422	1.49	6.0E-80	11421482	NT	Homo sapiens minichromosome maintenance deficient (S. cerevisiae) 3 (MCM3), mRNA
6200	18375	32726	3.35	6.0E-80	AJ40488.1	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), mRNA
							Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6388	19528	32888	4.07	6.0E-80	11438739	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
6402	19571		1.08	6.0E-80	7652393	NT	Homo sapiens KIAA0941 protein (KIAA0941), mRNA
6452	19519	32982	0.82	6.0E-80	M18533.1	NT	Homo sapiens dystrophin (DMD) mRNA, complete cds
9024	22103	35643	3.4	6.0E-80	11526484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
9024	22103	36844	3.4	6.0E-80	11526484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
9221	22289	36842	1.57	6.0E-80	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
9559	22624	36168	0.86	6.0E-80	AF181485.1	NT	Homo sapiens HSPC148 mRNA, complete cds
10095	23103	36706	1.83	6.0E-80	U20211.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exon 21
11183	24252	37887	2	6.0E-80	11427368	NT	Homo sapiens Brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11488	24556	38231	20.86	6.0E-80	AF226730.1	NT	Homo sapiens Cyt19 mRNA, complete cds
12053	25034	38740	1.48	6.0E-80	AF102265.1	NT	Homo sapiens N-acetylglucosamine-phosphate mutase mRNA, complete cds
12176	14098	27182	1.75	6.0E-80	A1422197.1	EST_HUMAN	158402.X1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN Q16795 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR ;
12309	25972		2	6.0E-80	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12612	26551		3.32	6.0E-80	AB029900.1	NT	Homo sapiens CST gene for cerebroside sulfoltransferase, exon 1, 2, 3, 4, 5
13081	29118		2.69	6.0E-80	AJ133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
601	13760	28811	1.7	6.0E-80	4506228	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA
868	14035	27097	1.89	6.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
858	14035	27098	1.89	6.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
1216	14377		1.49	6.0E-80	X91847.1	NT	H sapiens next1 gene (exon 12)
1485	14938		2.86	6.0E-80	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
2501	15628	28748	3.51	6.0E-80	AB037855.1	NT	Homo sapiens mRNA for KIAA1434 protein, partial cds
2865	15869	29078	1.78	6.0E-80	4504292	NT	Homo sapiens H3 histone family, member J (H3FJ) mRNA
4150	17302	30295	0.9	6.0E-80	AB018038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4150	17302	30296	0.9	6.0E-80	AB018038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
5098	18196	31170	1.23	6.0E-80	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C068
8552	21033	35170	1.28	6.0E-80	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
9458	22574	36140	5.03	4.0E-80	F26015.1	EST_HUMAN	HSPD13155 HMG3 Homo sapiens cDNA clone e4000045f03
223	13446		6.03	3.0E-80	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
5028	18157		2.3	3.0E-80	BE817465.1	EST_HUMAN	QV4-BN0263-040600-241-g10 BN0263 Homo sapiens cDNA
5941	18127	32440	1.78	3.0E-80	A1091875.1	EST_HUMAN	0023612.X1 Soares_NSF_F9_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1567054 3' similar to TR:Q35780 Q35760 PIG-L ;

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1841	14987	28087	4.85	2.0E-80	R35321.1	EST_HUMAN	y955a08.t1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:38080 5'
1908	15051	28163	1.57	2.0E-80	A1444821.1	EST_HUMAN	RET4B7 subtracted retina cDNA library Homo sapiens cDNA clone RET4B7
2116	15263	28372	7.03	2.0E-80	AL043116.2	EST_HUMAN	DKFZp434D1323_11 434 (synonym: hlec3) Homo sapiens cDNA clone DKFZp434D1323 5'
6944	20257	33696	0.95	2.0E-80	AA382962.1	EST_HUMAN	hm30001.s1 NCL CGAP_Cs9 Homo sapiens cDNA clone IMAGE:1090177 3'
7053	20106	33522	1.89	2.0E-80	11421930	NT	Homo sapiens Golgi transport complex protein (90 kDa) (GTC90), mRNA
7401	20479	33947	0.89	2.0E-80	T75215.1	EST_HUMAN	y88f12.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:22851 5' similar to SP-K1CR_XENLA P08802 KERATIN, TYPE I CYTOSKELETAL ENDO B ;
9360	22435	35994	1.21	2.0E-80	AW994270.1	EST_HUMAN	EST376343 MAGe sequences, MAGH Homo sapiens cDNA
9970	23009	36603	0.99	2.0E-80	AJ007379.1	NT	Homo sapiens GGT gene, exon 6
11108	24181	37815	6.84	2.0E-80	AA383382.1	EST_HUMAN	z70f12.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:72727 5' similar to TR:G191315
350	13561		1.62	1.0E-80	AL163303.2	NT	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN ;
822	14001	27055	1.3	1.0E-80	AF231020.1	NT	Homo sapiens chromosome 21 segment HS21C103
2009	15149		2.42	1.0E-80	AI732656.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
4983	17720	30703	0.96	1.0E-80	AF077188.1	NT	hm0112.x5 NCL CGAP_Cs9 Homo sapiens cDNA clone IMAGE:1076495 3' similar to contains ORF.11 OFR repetitive element ;
5343	18466		3.32	1.0E-80	Y13932.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
5442	18642		5.25	1.0E-80	BE386615.1	EST_HUMAN	Homo sapiens PRKY exon 7
6093	19274	32603	6.12	1.0E-80	L10347.1	NT	601274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615433 5'
6627	19787	33176	1.17	1.0E-80	5174540	NT	Human pro-alpha1 type II collagen (COL2A1) gene exons 1-54, complete cds
7356	20435	33897	1.18	1.0E-80	AJ224172.1	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
7747	20807	34298	8.03	1.0E-80	AI648731.1	EST_HUMAN	Homo sapiens mRNA for lipophilin B
7747	20807	34297	8.03	1.0E-80	AI648731.1	EST_HUMAN	wq25c05.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472286 3'
8420	21607	35039	0.67	1.0E-80	11421211	NT	wq25c05.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472286 3'
8897	21978	35514	0.76	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8897	21978	35515	0.76	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9485	22542	36104	1.17	1.0E-80	AF245219.1	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9485	22542	36105	1.17	1.0E-80	AF245219.1	NT	Homo sapiens probable mannosyl transferase binding C-type lectin DC-SIGNR mRNA, complete cds
10540	23674	37284	0.7	1.0E-80	D63476.2	NT	Homo sapiens probable mannosyl transferase binding C-type lectin DC-SIGNR mRNA, complete cds
10687	23971	37801	4.9	1.0E-80	11641276	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10887	23971	37802	4.9	1.0E-80	11641276	NT	Homo sapiens similar to rat myomegalin (LOC64182), mRNA
12593	25399	32042	1.32	1.0E-80	11417801	NT	Homo sapiens meningo (disrupted in balanced translocation) 1 (MNV1), mRNA
12862	25573		1.28	1.0E-80	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descrip'tor
10923	24006	37640	1.93	8.0E-81	AI251752.1	EST_HUMAN	qh90g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854296 3'
10923	24006	37641	1.93	8.0E-81	AI251752.1	EST_HUMAN	qh90g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854296 3'
11422	24483	38147	6.99	8.0E-81	BE394526.1	EST_HUMAN	601310531F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632070 5'
							ze21d10.r1 Soares_fetal_heart_NbH-19W Homo sapiens cDNA clone IMAGE:350535 5' similar to SW:KRHA_RABIT_Q02957 KERATIN, GLYCINE/TYROSINE-RICH OF HAIR, [1], contains element MER22 repetitive element;
2280	15412	28543	0.94	7.0E-81	AA011090.1	EST_HUMAN	zab91c08.x8 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:299918 3'
7402	20480	33948	3.69	7.0E-81	AI822115.1	EST_HUMAN	601111970F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3352840 5'
4508	17645	30632	3.73	6.0E-81	BE256828.1	EST_HUMAN	601111970F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3352840 5'
4508	17645	30633	3.73	6.0E-81	BE256829.1	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5397	18569	31569	2.28	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5397	18569	31570	2.28	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
9437	22511	36078	1.24	6.0E-81	AA360017.1	EST_HUMAN	EST6p129 Fetal lung II Homo sapiens cDNA clone IMAGE:4294601 5'
12747	25495	32030	3.38	6.0E-81	BF679022.1	EST_HUMAN	802153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
12747	25495	32031	3.38	6.0E-81	BF679022.1	EST_HUMAN	802153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
2291	15423	28557	2.98	6.0E-81	BE268042.1	EST_HUMAN	601125505F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3345480 5'
8607	21688	35226	3.06	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8607	21688	35227	3.06	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9848	22888	36467	1.25	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
9848	22888	36468	1.25	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11883	24871	36568	1.76	5.0E-81	9506634	NT	Homo sapiens hypothetical protein (FLJ11045), mRNA
720	13902	26943	0.64	4.0E-81	AI521435.1	EST_HUMAN	h608r12.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2122702 3' similar to TR:Q85560 Q85560
1887	15013	28121	1.54	4.0E-81	AW779612.1	EST_HUMAN	h684d02.x1 NCI_CGAP_Co14 Homo sapiens cDNA clone IMAGE:3035907 3' similar to SW:COFG_BOVIN
3239	16413	29428	3.91	4.0E-81	AB037766.1	NT	P53820 COATOMER GAMMA SUBUNIT;
							Homo sapiens mRNA for KIAA1345 protein, partial cds
3718	16878	29884	0.89	4.0E-81	AW004608.1	EST_HUMAN	ws90h03.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2505269 3' similar to TR:O43816 O43816
4276	17421	30408	2.94	4.0E-81	AF269306.1	NT	STRIATIN.;
4276	17421	30409	2.94	4.0E-81	AF269306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
							Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
7427	20504	33974	0.91	4.0E-81	4757893	NT	Homo sapiens calcium channel, voltage-dependent, L type, alpha 2/delta subunit (CACNA2) mRNA
7559	20631	34103	0.59	4.0E-81	11420544	NT	Homo sapiens ets variant gene 1 (ETV1), mRNA
8482	21563	35038	2.38	4.0E-81	X05989.1	NT	Human mRNA for amyloid A4(751) protein
8742	21821	35355	2.2	4.0E-81	U20187.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8742	21821	35356	2.2	4.0E-81	U20187.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
9427	22501	36087	3.35	4.0E-81	AB018001.1	NT	Homo sapiens mRNA for Death-associated protein kinase 2, complete cds
10306	23341	36846	1.4	4.0E-81	11425281	NT	Homo sapiens ligase I, DNA, ATP-dependent (LIG1), mRNA
10374	23409	37018	0.85	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10374	23409	37019	0.85	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
11461	24520	38189	4.74	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11461	24520	38190	4.74	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
12200	26039	31682	8.38	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12200	26039	31683	8.38	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12796	25632	32009	1.63	4.0E-81	11417871	NT	Homo sapiens beta-uridopropionase (LOC51733), mRNA
12796	25632	32010	1.63	4.0E-81	11417871	NT	Homo sapiens beta-uridopropionase (LOC51733), mRNA
12956	25623	31978	4.21	4.0E-81	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1298	14452	27510	9.08	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
1298	14452	27517	9.08	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
2444	15572	28701	1.72	3.0E-81	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A), mRNA, complete cds
3055	16231	29250	6.11	3.0E-81	4508280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN), mRNA
3055	16231	29251	6.11	3.0E-81	4508280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN), mRNA
2894	16073	29090	2.29	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3877121 5'
2894	16073	29091	2.29	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC 68 Homo sapiens cDNA clone IMAGE:3877121 5'
3873	17032	30031	0.8	2.0E-81	AW611542.1	EST_HUMAN	hg85c01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2952384 3'
8144	21226	34746	0.89	2.0E-81	8923839	NT	Homo sapiens hypothetical protein (LOC55586), mRNA
13129	17032	30031	5.88	2.0E-81	AW611542.1	EST_HUMAN	hg85c01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2952384 3'
4638	17774	30754	2.86	1.0E-81	AA040370.1	EST_HUMAN	z445h09.r1 Soares_pregnant_uterus_NbhPU Homo sapiens cDNA clone IMAGE:489825 5' similar to PIR:S52437 S52437 CDP-diacylglycerol synthase - fruit fly;
4768	17903	30885	9.54	1.0E-81	BE047996.1	EST_HUMAN	z445c04.y1 NCI_CGAP_Bm82 Homo sapiens cDNA clone IMAGE:2291526 5'
5241	18393	31331	0.6	1.0E-81	9966944	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
5351	18479	38821	6.18	1.0E-81	U87928.1	NT	Human aconitase hydratase (ACO2) gene, exon 3
5469	18669	31648	3.8	1.0E-81	11432968	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5469	18669	31649	3.8	1.0E-81	11432968	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5619	18813	31881	0.76	1.0E-81	AA255569.1	EST_HUMAN	z485d06.r1 Soares_NbhMPU_S1 Homo sapiens cDNA clone IMAGE:682475 5' similar to SW:PR12_HUMAN
5771	18683	32284	3.18	1.0E-81	U52351.1	NT	P49843 DNA PRIMASE 58 KD SUBUNIT ; Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6771	18983	32265	3.18	1.0E-81	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurojulin (CTNND2) mRNA, partial cds
6274	19448	32797	1.81	1.0E-81	BF674641.1	EST_HUMAN	602137864F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274535 5'
8877	20029	33439	1.09	1.0E-81	AJ133269.1	NT	Homo sapiens cavedin-1/2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
7849	20899	34509	7.84	1.0E-81	11432868	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
7872	21022	34535	0.81	1.0E-81	AJ250408.1	NT	Homo sapiens GLI3 gene for GLI3 protein
9978	23017	36610	0.89	1.0E-81	BE568278.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5'
9978	23017	36611	0.89	1.0E-81	BE568278.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5'
10174	23211	36804	5.13	1.0E-81	BE5684387.1	EST_HUMAN	601343180F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685483 5'
10308	23943	36948	0.81	1.0E-81	A4630784.1	EST_HUMAN	act14d06.a1 Streptococcus cell s3 937216 Homo sapiens cDNA clone IMAGE:866427 3' similar to SW:YB36_YEAST P38126 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION.1
10310	23345	36950	3.72	1.0E-81	BE744645.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10310	23345	36951	3.72	1.0E-81	BE744645.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10726	23759	37387	1.41	1.0E-81	AW897550.1	EST_HUMAN	CM3-NN0059-140400-147-a12 NN0059 Homo sapiens cDNA
10864	23896	37519	0.49	1.0E-81	AW250322.1	EST_HUMAN	2822127.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822127 5'
11182	24251	37886	1.97	1.0E-81	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11347	24409	38082	1.56	1.0E-81	AW844986.1	EST_HUMAN	MRO-CT0008-250599-019 CT0008 Homo sapiens cDNA
11347	24409	38082	1.56	1.0E-81	AW844986.1	EST_HUMAN	MRO-CT0008-250599-019 CT0008 Homo sapiens cDNA
11362	24414	38068	2.93	1.0E-81	AW798167.1	EST_HUMAN	RC3-UM0048-280200-011-a08 UM0048 Homo sapiens cDNA
11362	24414	38069	2.93	1.0E-81	AW798167.1	EST_HUMAN	RC3-UM0048-280200-011-a08 UM0048 Homo sapiens cDNA
11550	18480	31529	2.46	1.0E-81	AW860558.1	EST_HUMAN	EST372729 IMAGE resequences, MAGF Homo sapiens cDNA
11812	24802	38501	1.89	1.0E-81	BF204283.1	EST_HUMAN	901867714F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4110489 5'
12417	25295	32085	3.6	1.0E-81	11418138	NT	Homo sapiens phospholipase B (similar to apolipoprotein B mRNA editing protein) (DJ742C19.2), mRNA
13	13251	26251	1.59	8.0E-82	AF161408.1	NT	Homo sapiens HSPC288 mRNA, partial cds
109	13251	26251	1.35	8.0E-82	AF161408.1	NT	Homo sapiens HSPC288 mRNA, partial cds
274	13482	26523	1.58	8.0E-82	U08988.1	NT	Human GRF84 gene, partial cds
837	14015	27070	1.87	8.0E-82	U08988.1	NT	Human GRF84 gene, partial cds
910	14085	27150	1.84	8.0E-82	U08988.1	NT	Human GRF84 gene, partial cds
1520	14873	27755	2.24	8.0E-82	AB037748.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
1690	14842	27927	1.39	8.0E-82	6715601	NT	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA
4188	17348	30339	0.74	8.0E-82	4504118	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4398	17501	30483	0.83	8.0E-82	8923432	NT	Homo sapiens hypothetical protein FLJ20481 (FLJ20481), mRNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1481	14634		1.18	7.0E-82	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
2825	15939	28049	1.62	7.0E-82	AU144060.1	EST_HUMAN	AU144060 HEMBA1 Homo sapiens cDNA clone HEMBA1000752 3'
1705	14857	27044	22.54	4.0E-82	AF081484.1	NT	Homo sapiens alpha-tubulin isoform 1 mRNA, complete cds
5613	18807	31874	0.87	4.0E-82	BF331691.1	EST_HUMAN	QV2-HT0540-120900-362-08 HT0540 Homo sapiens cDNA
5613	18807	31875	0.87	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-08 HT0540 Homo sapiens cDNA
5876	15066	32374	1.1	4.0E-82	M25833.1	NT	Human von Willebrand factor gene, exon 8
12016	26000	38702	4.71	4.0E-82	AI937300.1	EST_HUMAN	wp75e09.x1 NC1_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2467624 3' similar to TR:075276
12683	25455		3.78	4.0E-82	AF029701.2	NT	O75276 PKD1;
							Homo sapiens presenilin-1 gene, exons 1 and 2
288	13506	26540	15.3	3.0E-82	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
721	13903	26944	2.6	3.0E-82	BE005705.1	EST_HUMAN	RC2-BN0120-010400-013-02 BN0120 Homo sapiens cDNA
810	13089	27043	8.44	3.0E-82	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
893	14069	27134	5.31	3.0E-82	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1086	14252		15.73	3.0E-82	AA725848.1	EST_HUMAN	ai23a05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1345648 3'
1386	14541	27617	1.22	3.0E-82	AW875073.1	EST_HUMAN	RC6-PT0001-190100-021-B02 PT0001 Homo sapiens cDNA
1494	14847	27729	5.59	3.0E-82	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1950	15093	28194	2.14	3.0E-82	BE813232.1	EST_HUMAN	RC1-BN0005-280700-018-g04 BN0005 Homo sapiens cDNA
2062	15202	28318	1.11	3.0E-82	4501922	NT	Homo sapiens adenylate cyclase activating polypeptide 1 (pituitary) receptor type 1 (ADCYAP1R1) mRNA
3345	16318		2.42	3.0E-82	5453811	NT	Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA
8346	21427	34952	2.66	3.0E-82	11425206	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8753	21832	35371	0.89	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
8753	21832	35372	0.89	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
10029	23087	36665	4.01	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
10029	23087	36666	4.01	3.0E-82	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
610	13799	28816	2.49	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
610	13799	28819	2.49	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1720	14870	27062	2.23	2.0E-82	AL046390.1	EST_HUMAN	Homo sapiens mRNA for KIAA0999 protein, partial cds
3949	17107	30104	0.93	2.0E-82	D87675.1	NT	DKFZp434M117_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434M117 5'
4131	17284	30279	0.68	2.0E-82	U76833.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4348	17491	30473	0.9	2.0E-82	4504116	NT	Human integral membrane serine protease Seprasse mRNA, complete cds
4680	17815	30803	1.52	2.0E-82	AB029019.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
							Homo sapiens mRNA for KIAA1066 protein, partial cds

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4880	17815	30804	1.52	2.0E-32	AB028019.1	NT	Homo sapiens mRNA for KIAA1086 protein, partial cds
4892	19121	31100	2.86	2.0E-32	AF045555.1	NT	Homo sapiens wbcn1 (WBCN1) and wbcn5 (WBCN5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
5191	18313	31280	1.58	2.0E-32	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5191	18313	31281	1.56	2.0E-32	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5587	18782	31827	2.89	2.0E-32	AB018270.1	NT	Homo sapiens mRNA for KIAA0727 protein, partial cds
6304	19477	32832	4.63	2.0E-32	AF234882.1	NT	Homo sapiens FAM441 splice variant a (FAM441) mRNA, complete cds
7858	28222		1.19	2.0E-32	AI476428.1	EST_HUMAN	trn21g05.x1 Soares, NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2157272 3'
7889	21C38	34550	0.8	2.0E-32	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8500	21581	35117	1.81	2.0E-32	11321570	NT	Homo sapiens slit (Drosophila) homolog 3 (SLIT3), mRNA
8859	21948	35482	0.58	2.0E-32	7657340	NT	Homo sapiens microchidia (mouse) homolog (MORC), mRNA
8859	21948	35483	0.58	2.0E-32	7657340	NT	Homo sapiens microchidia (mouse) homolog (MORC), mRNA
10316	23350	36956	1.16	2.0E-32	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
10315	23350	36957	1.16	2.0E-32	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11547	24603	38279	1.74	2.0E-32	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11547	24603	38280	1.74	2.0E-32	11417191	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11588	24641	38322	2.6	2.0E-32	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
11588	24641	38323	2.6	2.0E-32	U80736.1	NT	Homo sapiens CAGF9 mRNA, partial cds
12230	25177		2.81	2.0E-32	N94950.1	EST_HUMAN	Zb31d10.a1 Soares, parathyroid tumor NHPHA Homo sapiens cDNA clone IMAGE:306203 3'
12818	25645		3.72	2.0E-32	AA011278.1	EST_HUMAN	201g09.11 Soares, fetal liver, spleen, INFLS S1 Homo sapiens cDNA clone IMAGE:428568 5'
605	13794	28813	1.59	1.0E-32	11545921	NT	Homo sapiens melanoma differentiation associated protein-3 (MDA5), mRNA
1235	14394		3.19	1.0E-32	BE885106.1	EST_HUMAN	601510858F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3972207 5'
1314	14470	27536	1.38	1.0E-32	BE084388.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
1315	14471	27537	0.8	1.0E-32	AB011110.2	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
9143	22222	35765	0.9	1.0E-32	AB037838.1	NT	Homo sapiens mRNA for KIAA1417 protein, partial cds
8853	22883	36474	0.51	1.0E-32	AB014582.1	NT	Homo sapiens mRNA for KIAA0662 protein, partial cds
10451	23486		1.4	1.0E-32	BF616938.1	EST_HUMAN	UIH-BW1-40a-f-03-OUI.s1 NCI_CGAP Sub7 Homo sapiens cDNA clone IMAGE:3084083 3'
10841	24093	37698	2.49	1.0E-32	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C009
11256	24327	37666	1.49	1.0E-32	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
5307	18424	31384	1.05	9.0E-33	AF224699.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3' (UBE2D3) genes, complete cds
8972	21951	35530	4.99	9.0E-33	BF672220.1	EST_HUMAN	602150403F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4291581 5'
10481	23156	37128	0.72	9.0E-33	BE253347.1	EST_HUMAN	601117180F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357734 5'
1446	14589	27676	2.97	8.0E-33	BE383973.1	EST_HUMAN	601273346F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3514362 5'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1715	15992	27956	10.59	8.0E-83	N66951.1	EST_HUMAN	2248f12.s1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:285823.3'
1398	14543	27618	1.2	7.0E-83	AW385529.1	EST_HUMAN	QV4-LT0016-271299-088-R11 LT0016 Homo sapiens cDNA
2928	16105		1.64	7.0E-83	AA584655.1	EST_HUMAN	nc12h01.s1 NCL_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497.3' similar to contains Alu repetitive element;
4936	18066		6.95	7.0E-83	BF221813.1	EST_HUMAN	7p37a07.x1 NCL_CGAP_P128 Homo sapiens cDNA clone IMAGE:3647893.3' similar to TR:Q9Y316 Q9Y316 DU207H1.1;
6176	18352	32699	0.95	7.0E-83	11426857	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
416	13611	26650	1.39	6.0E-83	M33320.1	NT	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
1828	14676	28071	1.79	6.0E-83	AW573088.1	EST_HUMAN	h31h03.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2833528.3' similar to
3082	16258	29277	0.68	6.0E-83	AW816405.1	EST_HUMAN	SW:YBEB_HAEIN P44471 HYPOTHETICAL PROTEIN H10034.;
3116	16292		0.7	6.0E-83	AF231919.1	NT	QV4-ST0234-181199-037-105 S10234 Homo sapiens cDNA
3663	16818	29828	0.92	6.0E-83	11430241	NT	Homo sapiens chromosome 21 unknown mRNA
5408	18610	31582	1.73	6.0E-83	4507868	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
6147	19324	32689	1.31	6.0E-83	AJ010770.1	NT	Homo sapiens hyperion gene, exons 1-50
7671	20737	34215	2	6.0E-83	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
9878	22918	36503	3.51	6.0E-83	45053174	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
9971	23010	36604	0.71	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
9971	23010	36605	0.71	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
11821	24810		2.31	6.0E-83	AA486105.1	EST_HUMAN	ab14e10.s1 Stragene lung (8937210) Homo sapiens cDNA clone IMAGE:840810.3' similar to contains THR_L2 THR repetitive element;
12179	25139		4.14	6.0E-83	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
999	14142		1.24	5.0E-83	U17883.1	NT	Human succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 5
2108	15988		3	5.0E-83	AF008305.1	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
3728	16989	29893	0.91	5.0E-83	AL133207.2	NT	Novel human gene mapping to chromosome X
4015	17172	30180	0.73	5.0E-83	4885190	NT	Homo sapiens chromosome 21 segment HS21C010
4554	17652	30672	0.51	5.0E-83	AL163210.2	NT	Homo sapiens deoxyribonuclease (DNASE1), mRNA
5160	18312	31278	13.87	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5190	18312	31279	13.87	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
657	13843	26870	1.87	4.0E-83	AF224699.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
1022	14193		4.09	3.0E-83	AA368311.1	EST_HUMAN	EST79542 Placenta 1 Homo sapiens cDNA similar to endogenous retrovirus ERV9

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2837	15951		1.6	3.0E-83	AA832854.1	EST_HUMAN	np87c07.s1 NCL CGAP_T1w1 Homo sapiens cDNA clone IMAGE:1133292 similar to contains THR12 THR
6706	10866		0.82	3.0E-83	AI217223.1	EST_HUMAN	repetitive element;
1843	14989	28089	1.37	2.0E-83	AA969492.1	EST_HUMAN	q73e06.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:175682 3'
1843	14989	28090	1.37	2.0E-83	AA969492.1	EST_HUMAN	q84g05.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to TR:Q92814
1878	15121	28222	9.11	2.0E-83	AB033098.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216 ;
2251	15384	28512	1.57	2.0E-83	AB033098.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216 ;
2913	16091	29103	1.33	2.0E-83	BE828684.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216 ;
3342	16515		2.16	2.0E-83	11430834	NT	Q92814 MYELOBLAST KIA0216 ;
3874	17033		0.94	2.0E-83	AL163202.2	NT	Q92814 MYELOBLAST KIA0216 ;
4466	17598	30676	4.95	2.0E-83	AF202878.1	NT	Q92814 MYELOBLAST KIA0216 ;
4776	17810	30893	3.19	2.0E-83	7706398	NT	Q92814 MYELOBLAST KIA0216 ;
4776	17810	30894	3.19	2.0E-83	7706398	NT	Q92814 MYELOBLAST KIA0216 ;
5385	18587	31559	0.91	2.0E-83	U06678.1	NT	Q92814 MYELOBLAST KIA0216 ;
5987	19153	32468	0.87	2.0E-83	11428081	NT	Q92814 MYELOBLAST KIA0216 ;
6066	19268	32697	1.2	2.0E-83	BE885401.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216 ;
6885	20037	33446	0.72	2.0E-83	AF126533.1	NT	Q92814 MYELOBLAST KIA0216 ;
7593	20364	34140	5.15	2.0E-83	AF126533.1	NT	Q92814 MYELOBLAST KIA0216 ;
7887	21036	34948	0.98	2.0E-83	BF105097.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216 ;
8026	21109	34626	0.63	2.0E-83	AB001025.1	NT	Q92814 MYELOBLAST KIA0216 ;
8026	21109	34627	0.63	2.0E-83	AB001025.1	NT	Q92814 MYELOBLAST KIA0216 ;
8175	21257	34779	1.46	2.0E-83	U06670.1	NT	Q92814 MYELOBLAST KIA0216 ;
8509	21560	35124	2.62	2.0E-83	AF011920.1	NT	Q92814 MYELOBLAST KIA0216 ;
8509	21560	35125	2.52	2.0E-83	AF011920.1	NT	Q92814 MYELOBLAST KIA0216 ;
9793	22833	36412	0.84	2.0E-83	5453381	NT	Q92814 MYELOBLAST KIA0216 ;
9793	22833	36413	0.84	2.0E-83	5453381	NT	Q92814 MYELOBLAST KIA0216 ;
10240	23275	36866	3.2	2.0E-83	M22094.1	NT	Q92814 MYELOBLAST KIA0216 ;
10240	23275	36867	3.2	2.0E-83	M22094.1	NT	Q92814 MYELOBLAST KIA0216 ;
10322	23557	36967	1.55	2.0E-83	AU117699.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216 ;
10392	23427	37034	0.78	2.0E-83	AW505600.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216 ;
11086	24160	37766	3.24	2.0E-83	11436448	NT	Q92814 MYELOBLAST KIA0216 ;
11188	24239	37870	1.64	2.0E-83	AL134482.1	EST_HUMAN	Q92814 MYELOBLAST KIA0216 ;

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11108	24239	37871	1.64	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135_r1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547J135 5'
12859	25570		3.26	2.0E-83	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1444	14597	27873	2.26	1.0E-83	4604326	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1444	14597	27874	2.26	1.0E-83	4604326	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
2076	15216	28335	1.15	1.0E-83	4503652	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
2722	15840	28951	1.21	1.0E-83	BE888680.1	EST_HUMAN	Homo sapiens fatty-acid-Coenzyme A ligase, very long-chain 1 (FACVLC1) mRNA
3251	16425	28443	0.72	1.0E-83	7662349	NT	601507375F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908764 5'
3972	17129	30132	7.76	1.0E-83	AF053768.1	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0888), mRNA
4358	17502	30484	2.22	1.0E-83	Z25922.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
5008	18137	31111	2.74	1.0E-83	4502166	NT	H. sapiens gene for mitochondrial dodecenoyl-CoA delta-isomerase, exon 3
8886	19888	33397	1.59	1.0E-83	AI027614.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3897	17056	30056	3.62	7.0E-84	BE901209.1	EST_HUMAN	ov68b08.x1 Soares, testis_NHT Homo sapiens cDNA clone IMAGE:1645431 3' similar to gb:M64241 QM PROTEIN (HUMAN);
1323	14478	27544	2.96	6.0E-84	BE838894.1	EST_HUMAN	601576023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3968863 5'
1323	14478	27545	2.96	6.0E-84	BE838894.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
2471	15598	28723	17.98	6.0E-84	AA770574.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
5354	18481		2.18	6.0E-84	AL042893.2	EST_HUMAN	ae68a03.s1 Stragatene schizo brain S11 Homo sapiens cDNA clone IMAGE:971020 3'
5635	18929	31905	1.91	6.0E-84	AA897339.1	EST_HUMAN	DKFZp434H0322_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434H-0322 5'
5777	18969	32273	0.99	6.0E-84	11428718	NT	dk47g03.s1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460500 3' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
5777	18969	32274	0.99	6.0E-84	11428718	NT	Homo sapiens acetyl LDL receptor, SREC= scavenger receptor expressed by endothelial cells (SREC), mRNA
7642	20711	34190	3.14	6.0E-84	BE810371.1	EST_HUMAN	Homo sapiens acetyl LDL receptor, SREC= scavenger receptor expressed by endothelial cells (SREC), mRNA
7868	20822	34429	1.05	6.0E-84	AF038391.1	NT	PMO-L_T0019-180600-004-F02 LT0019 Homo sapiens cDNA
8264	21346	34861	2	6.0E-84	BE770199.1	EST_HUMAN	Homo sapiens pre-mRNA splicing factor (PRP16) mRNA, complete cds
732	13914	28955	1.32	5.0E-84	AA382811.1	EST_HUMAN	PM4-FT0054-160600-004-e10 FT0054 Homo sapiens cDNA
3079	16255		1.91	5.0E-84	AF109718.1	NT	EST96094 Testis I Homo sapiens cDNA 5' end
6232	19407	32756	0.62	5.0E-84	AA167878.1	EST_HUMAN	Homo sapiens chromosome 3 subtelomeric region
							zq39a07.r1 Stragatene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632100 5' similar to TR:G483915 G483915 RETROTRANSPOSABLE L1 ELEMENT LRE2 FROM CHROMOSOME 1Q.;

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11838	24827	38516	2.85	5.0E-84	11428740	NT	Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RFX3), mRNA
11952	24938	38640	1.99	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11952	24938	38641	1.99	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
1407	14561	27635	1.34	4.0E-84	AB037735.1	NT	Homo sapiens mRNA for KIAA1314 protein, partial cds
1443	14596	27672	4.47	4.0E-84	AI685321.1	EST_HUMAN	wa76c04.x1 Soares_NFL_1_GRC_S1 Homo sapiens cDNA clone IMAGE:2302086 3' similar to SW:NRDC_HUMAN_043847 NARDILYSIN PRECURSOR;
5084	18192	31167	0.66	4.0E-84	4505928	NT	Homo sapiens polymerase (DNA-directed), alpha (70kD) (POLA2), mRNA
5085	18193	31168	1.52	4.0E-84	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
5377	18579	31448	1.82	4.0E-84	AF022835.1	NT	Homo sapiens multidrug resistance protein (MRP), exon 13
5680	18874	32162	1.8	4.0E-84	11395168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
5680	18874	32163	1.8	4.0E-84	11395168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
6598	19337	32928	2.14	4.0E-84	AF059650.1	NT	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
7825	20880	34381	13.68	4.0E-84	11421326	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9112	22191	35735	1.12	4.0E-84	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
9112	22191	35736	1.12	4.0E-84	4557528	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
11158	24229	37859	4.76	4.0E-84	AB032956.1	NT	Homo sapiens mRNA for KIAA1130 protein, partial cds
328	13340	28572	2.16	3.0E-84	AF026200.1	NT	Homo sapiens Bact1 protein homolog mRNA, partial cds
1178	14341	27395	1.53	3.0E-84	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
2015	15155	28260	2.39	3.0E-84	543655	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
2063	15203	28319	2.39	3.0E-84	AL096990.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
3843	17002	30005	5.53	3.0E-84	AF014459.1	NT	Homo sapiens X-linked juvenile retinoblastoma precursor protein (XLRP1) mRNA, complete cds
11118	24190		5.78	3.0E-84	AI983801.1	EST_HUMAN	U1-H-B4-act-a-02-Q-U1.s7 NCI CGAP SubB Homo sapiens cDNA clone IMAGE:3084963 3'
2172	16307	28435	6.48	2.0E-84	BE693397.1	EST_HUMAN	U1-H-B4-act-a-02-Q-U1.s7 NCI CGAP SubB Homo sapiens cDNA clone IMAGE:3084963 3'
2172	16307	28436	6.48	2.0E-84	BE693397.1	EST_HUMAN	U1-H-B4-act-a-02-Q-U1.s7 NCI CGAP SubB Homo sapiens cDNA clone IMAGE:3084963 3'
3009	18185	29209	9.21	2.0E-84	AF036943.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1L) mRNA, complete cds
3027	18203	29228	1.22	2.0E-84	X89211.1	NT	H sapiens DNA for endogenous retroviral like element
5843	18837	31914	0.93	2.0E-84	BF511575.1	EST_HUMAN	U1-H-B4-act-a-02-Q-U1.s7 NCI CGAP SubB Homo sapiens cDNA clone IMAGE:3084963 3'
5843	18837	31915	0.93	2.0E-84	BF511575.1	EST_HUMAN	U1-H-B4-act-a-02-Q-U1.s7 NCI CGAP SubB Homo sapiens cDNA clone IMAGE:3084963 3'
8774	19920	33325	0.92	2.0E-84	H63370.1	EST_HUMAN	U1-H-B4-act-a-02-Q-U1.s7 NCI CGAP SubB Homo sapiens cDNA clone IMAGE:3084963 3'
8247	21329		1.55	2.0E-84	AI288974.1	EST_HUMAN	U1-H-B4-act-a-02-Q-U1.s7 NCI CGAP SubB Homo sapiens cDNA clone IMAGE:3084963 3'
8579	21680	35200	0.88	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8579	21680	35201	0.88	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9548	22611	36178	1.24	2.0E-84	AU120280.1	EST_HUMAN	AU120280 HEMBB1 Homo sapiens cDNA clone HEMBB1000339 5'

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9833	22972	36564	0.84	2.0E-84	H22841.1	EST_HUMAN	ym9e11.11 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:51383 5' similar to SP-APOH_RAT P28644 BETA-2-GLYCOPROTEIN1;
12449	25318	32082	1.81	2.0E-84	BF448000.1	EST_HUMAN	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q8UGS3 Q8UGS3 DJ758G23.1;
12449	25316	32093	1.81	2.0E-84	BF448000.1	EST_HUMAN	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q8UGS3 Q8UGS3 DJ758G23.1;
322	13536	26588	1.5	1.0E-84	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
563	13755	26781	10.87	1.0E-84	4507852	NT	Homo sapiens tyrosine 3-monooxygenase/hydrophobic 5-monooxygenase activation protein, zeta polypeptide (YVHAZ) mRNA
733	13920		1.19	1.0E-84	11427631	NT	Homo sapiens complement component 5 (C5), mRNA
1321	14771	27542	2.63	1.0E-84	AA984379.1	EST_HUMAN	am85b11.st Striatogene schizoa brain S11 Homo sapiens cDNA clone IMAGE:162885 3'
2114	15252	28371	3.11	1.0E-84	BE392137.1	EST_HUMAN	60130800G1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3628257 5'
2288	15430	28562	1.53	1.0E-84	11427197	NT	Homo sapiens pericentriolar material 1 (PCM1), mRNA
3845	17005	30007	2.78	1.0E-84	AA720851.1	EST_HUMAN	nm12e06.st NCL_CGAP_SST Homo sapiens cDNA clone IMAGE:7239106 3'
4538	17678	30659	5.69	1.0E-84	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4821	17954	30639	3.03	1.0E-84	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
4821	17954	30940	3.03	1.0E-84	AL043314.2	EST_HUMAN	DKFZp434N0323_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
5031	17678	30659	3.96	1.0E-84	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
6043	19226	32549	0.88	1.0E-84	11434422	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA
6319	19491	32849	2.84	1.0E-84	S73482.1	NT	uterine water channel=28 kDa erythrocyte integral membrane protein homolog (human, uterus, mRNA, 1340 nt)
7020	20156	33676	1.42	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7020	20156	33577	1.42	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7256	20339	33789	2.53	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7637	20706	34185	10.45	1.0E-84	8993994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
7737	20798	34287	1.07	1.0E-84	11430846	NT	Homo sapiens NGF-A binding protein 1 (ERGT binding protein 1) (NAB1), mRNA
7777	20798	34287	2.34	1.0E-84	11430846	NT	Homo sapiens NGF-A binding protein 1 (ERGT binding protein 1) (NAB1), mRNA
9735	22800		2.79	1.0E-84	5031984	NT	Homo sapiens nuclear transport factor 2 (placental protein 15) (PPT15), mRNA
9972	23011	36606	0.9	1.0E-84	AF224511.1	NT	Homo sapiens Ca2+-binding protein GABP3 (GABP3) gene, exon 5 and partial cds
9994	18488	31527	1.6	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13), mRNA
9994	18488	31528	1.9	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13), mRNA
12325	25235		2.62	1.0E-84	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA
12438	25311	32088	3.77	1.0E-84	11418185	NT	Homo sapiens acetylase 2, mitochondrial (ACO2), mRNA
989	14161		1.94	9.0E-85	AL193209.2	NT	Homo sapiens chromosome 21 segment HS21C009

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1098	14263	27319	2.89	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skp mRNA, complete cds
1098	14263	27320	2.89	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skp mRNA, complete cds
1608	14762	27841	1.12	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1608	14762	27842	1.12	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1709	14960	27949	3.59	9.0E-85	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZp434P211), mRNA
3870	17029		0.8	9.0E-85	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C009
4368	17509	30490	0.92	9.0E-85	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
5001	18130	31105	0.99	9.0E-85	5901879	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
5032	18160	31137	1.18	9.0E-85	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
13046	14960	27949	1.78	9.0E-85	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZp434P211), mRNA
1159	14323	27378	4.64	7.0E-85	L05034.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
11943	24929		5.61	7.0E-85	AF113210.1	NT	Homo sapiens MSTP030 mRNA, complete cds
11702	24689	38391	2.56	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11702	24689	38392	2.56	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
12060	25041	38750	2	6.0E-85	AA403053.1	EST_HUMAN	G1335789 GAG-POL POLYPROTEIN, :
2410	15540	28668	4.09	5.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4552	17690		0.71	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-a isoform (CACNA1I) mRNA, complete cds
5567	18784	31804	1.59	6.0E-85	BF038674.1	EST_HUMAN	601458646F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862402 5'
5567	18784	31805	1.59	5.0E-85	BF038674.1	EST_HUMAN	601458646F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862402 5'
11981	24442	38101	2.31	5.0E-85	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
13127	17690		1.72	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-a isoform (CACNA1I) mRNA, complete cds
6276	19450	32798	1.39	4.0E-85	BF077910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
6276	19450	32799	1.39	4.0E-85	BF077910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
8021	21074	34686	3.43	4.0E-85	BE88230.1	EST_HUMAN	601605022F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3906940 5'
10788	23831		1.8	4.0E-85	BE078263.1	EST_HUMAN	RC1-B70823-120200-011-c07 B70823 Homo sapiens cDNA
1327	14484	27551	0.91	3.0E-85	AF098187.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
1821	14970	28062	4.8	3.0E-85	T97496.1	EST_HUMAN	ye63p03.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:121504 5'
5019	18148	31125	1.03	3.0E-85	11024895	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5019	18148	31126	1.03	3.0E-85	11024895	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
5080	18208	31180	0.91	3.0E-85	7983442	NT	Homo sapiens olfactory receptor, family 12, subfamily D, member 2 (OR12D2), mRNA
5517	18715	31729	6.35	3.0E-85	11436001	NT	Homo sapiens lacrimal prolactin rich protein (LPRP), mRNA
8210	19385	32734	0.72	3.0E-85	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
8262	19436	32782	4.92	3.0E-85	7662309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
8262	19436	32783	4.92	3.0E-85	7662309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
7091	20185		7.95	3.0E-85	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7555	20627	34103	0.84	3.0E-85	11416870	NT	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK), KIAA0621 protein (KIAA0621), mRNA
8056	21139	34659	1.44	3.0E-85	U4953.1	NT	Homo sapiens DENN mRNA, complete cds
8706	21766	35319	0.48	3.0E-85	11525829	NT	Homo sapiens CGL-87 protein (LOC51108), mRNA
9178	22256	35798	4.39	3.0E-85	11430869	NT	Homo sapiens phospholipase C, epsilon (PLCE), mRNA
9506	22772	36343	0.84	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B* (SNRNP2), mRNA
9506	22772	36344	0.84	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B* (SNRNP2), mRNA
10700	23733	37338	0.72	3.0E-85	AF098642.1	NT	Homo sapiens phospholipid scramblase mRNA, complete cds
11798	24786	38484	1.48	3.0E-85	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
12998	25648		3.02	3.0E-85	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
985	14157	27218	0.62	2.0E-85	7657266	NT	Homo sapiens KIAA0929 protein Mix2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
1056	14231	27289	2.35	2.0E-85	AF248540.1	NT	Homo sapiens interectin 2 (SH3D1B) mRNA, complete cds
1436	14589	27662	1.19	2.0E-85	7709205	NT	Homo sapiens CGL-201 protein (LOC51340), mRNA
1451	14604	27682	13.02	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1451	14604	27683	13.02	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
2304	15436	28568	2.92	2.0E-85	U10525.1	NT	Human DNA polymerase beta gene, exons 12 and 13
2884	14523		4.22	2.0E-85	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3087	16263	29280	3.57	2.0E-85	M30938.1	NT	Homo sapiens (p70p80) subunit mRNA, complete cds
4454	17584	30574	4.68	2.0E-85	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4687	17822	30810	0.74	2.0E-85	4820977	NT	Homo sapiens reelin (RELN) mRNA
5030	18159	31136	1.21	2.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9473	22530	36084	1.78	2.0E-85	AI760820.1	EST_HUMAN	w67H08.x1 NCL CGAP Kid12 Homo sapiens cDNA clone IMAGE:2398431 3' similar to contains element MSR1 repetitive element
9849	22889	36469	0.82	2.0E-85	AI914459.1	EST_HUMAN	wd49d03.x1 Soares NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2331481 3'
10489	23504	37118	0.94	2.0E-85	AI886384.1	EST_HUMAN	w994d12.x1 NCL CGAP_U12 Homo sapiens cDNA clone IMAGE:2443607 3'
2380	15491		3.55	1.0E-85	BE794308.1	EST_HUMAN	601591416F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3945818 5'

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Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2467	15594	28719	9.36	1.0E-85	BE816392.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3886021 5'
2467	15594	28720	9.36	1.0E-85	BE816392.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3886021 5'
7083	21032	34545	0.81	1.0E-85	BE062851.1	EST_HUMAN	MGC-ST0284-221189-002-403 BT0284 Homo sapiens cDNA
6984	23023	36815	2.13	1.0E-85	BE257917.1	EST_HUMAN	601109738F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350553 5'
10416	23450	37055	0.78	1.0E-85	AW813925.1	EST_HUMAN	RC1-ST0195-081099-011-c05 ST0195 Homo sapiens cDNA
11164	24235	37866	2.78	1.0E-85	AA778785.1	EST_HUMAN	24503.s1 Soares_fetal_liver_spleen_1NFLS_ST Homo sapiens cDNA clone IMAGE:453245 3'
11245	24314	37953	1.88	1.0E-85	AA778785.1	EST_HUMAN	24503.s1 Soares_fetal_liver_spleen_1NFLS_ST Homo sapiens cDNA clone IMAGE:453245 3'
11245	24314	37854	1.88	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
12068	25049	38757	3.29	1.0E-85	AI198420.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
12330	25404	32045	4.68	1.0E-85	11417862	NT	q55607.x1 NCL_OGAP_Bm25 Homo sapiens cDNA clone IMAGE:1860468 3'
12601	25404	32045	2.92	1.0E-85	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1460	14613		25.01	9.0E-88	BE274217.1	EST_HUMAN	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
6254	19428	32714	0.62	8.0E-88	11424140	NT	Homo sapiens similar to CDC28 protein kinase 1 (H. sapiens) (LOC63041), mRNA
233	13454	28480	2.2	7.0E-88	7862247	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
960	14133	27162	1.03	7.0E-88	AA860801.1	EST_HUMAN	q88108.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
960	14133	27163	1.03	7.0E-88	AA860801.1	EST_HUMAN	q88108.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6325	19487	32853	0.97	7.0E-88	9968886	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6325	19497	32854	0.97	7.0E-88	9968886	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
7118	18542	31499	0.43	7.0E-88	11421737	NT	Homo sapiens Tax1 (human T-cell leukemia virus type 1) binding protein 1 (TAX1BP1), mRNA
8943	23022	36562	3.98	7.0E-88	138557.1	NT	Homo sapiens galactose oxidase (GALC) gene, exon 15
9901	22941		1.13	7.0E-88	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9800	22899	36595	1.88	7.0E-88	11528307	NT	Homo sapiens DiGeorge syndrome critical region gene 8 (DGCR8), mRNA
11204	24273	37909	1.44	7.0E-88	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
11204	24273	37910	1.44	7.0E-88	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
12117	25097	38802	1.99	7.0E-88	11418003	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
1322	14478	27543	1.87	8.0E-88	4505492	NT	Homo sapiens oxoglutarate dehydrogenase (liponamide) (OGDH) mRNA
217	13439	26471	2.15	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458930 5'
8159	18335	32080	11.61	4.0E-88	BE256543.1	EST_HUMAN	60117885F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531953 5'
11617	13439	26471	2.34	4.0E-88	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458930 5'
4404	17547	30631	0.94	3.0E-88	BE667703.1	EST_HUMAN	601443282F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847455 5'
5713	18908	32201	6.19	3.0E-88	AW340848.1	EST_HUMAN	x292r12.x1 NCL_OGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871719 3'
8457	21538	35087	1.21	3.0E-88	AV722329	HTB Homo sapiens cDNA clone HTBBS104 5'	
10425	23460	37055	3.54	3.0E-88	BE888479.1	EST_HUMAN	601508696F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10425	23490	37066	3.54	3.0E-86	BE886478.1	EST_HUMAN	601508696FT NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3811303 5'
11720	23906	37529	4.87	3.0E-86	AI658240.1	EST_HUMAN	U1802.X1 NCI_CGAP_Pt28 Homo sapiens cDNA clone IMAGE:2251371 3'
11903	24793	38491	1.37	3.0E-86	AV690469.1	EST_HUMAN	AV690469 GKO Homo sapiens cDNA clone GKBSE02 5'
12300	25971		3.38	3.0E-86	BE410354.1	EST_HUMAN	601302333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636763 5'
277	13495	26525	1.56	2.0E-86	AA306284.1	EST_HUMAN	EST177232 Jurkat T-cells VI Homo sapiens cDNA 5' end
427	13622		2.69	2.0E-86	AI163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1217	14378	27437	3.33	2.0E-86	NE59977.1	EST_HUMAN	Y18A08.11 Soares multiple sclerosis_ZNBMSP Homo sapiens cDNA clone IMAGE:283478 5'
2265	15398	28528	8.53	2.0E-86	9835487	NT	Human endogenous retrovirus, complete genome
2342	15473	28607	1.56	2.0E-86	AB033103.1	NT	Homo sapiens mRNA for KIAA1277 protein, partial cds
3302	16689	29678	1.51	2.0E-86	AW966142.1	EST_HUMAN	EST378215 IMAGE resequences, MAGI Homo sapiens cDNA
3840	19999	30001	2.29	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAA T-delta) mRNA, complete cds
3840	19999	30002	2.29	2.0E-86	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAA T-delta) mRNA, complete cds
4151	17303		2.59	2.0E-86	AW515742.1	EST_HUMAN	h87908.X1 NCI_CGAP_GCO6 Homo sapiens cDNA clone IMAGE:2916342 3'
4910	18040	31030	3.21	2.0E-86	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
5993	19178	32499	1.32	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5993	19178	32500	1.32	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
							Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
7221	25837	33501	0.78	2.0E-86	11419429	NT	Human Chediak-Higashi syndrome protein short isoform (LYST) mRNA, complete cds
8199	21281	34803	0.58	2.0E-86	U84744.1	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8772	21851	35392	2.52	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8772	21851	35393	2.52	2.0E-86	11437135	NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
9104	22183	35728	0.68	2.0E-86	10833876	NT	Homo sapiens chromosome segregation 1 (yeast homolog)-like (OSE1L), mRNA
9519	22594	36153	1.96	2.0E-86	11422084	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10864	23698	37307	2.8	2.0E-86	11545846	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10864	23698	37308	2.9	2.0E-86	11545848	NT	Homo sapiens hypodermal protein FLJ20125 (FLJ20125), mRNA
10867	23701	37311	0.48	2.0E-86	11417120	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
10721	23754	37360	1.25	2.0E-86	AB037832.1	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KAS) mRNA
11143	24215	37842	1.78	2.0E-86	475905.1	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12789	25527	32006	6.3	2.0E-86	11418189	NT	Homo sapiens gene for AF-6, complete cds
12980	25638		2.55	2.0E-86	AB011399.1	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) (NDUFS1) mRNA
1927	14779	27864	2.15	1.0E-86	4826855	NT	

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top Hit) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3231	16405	29417	1.68	1.0E-86	5453849	NT	Homo sapiens fibulin 5 (FBLN5) mRNA
3307	16481	29502	2.39	1.0E-86	L20492.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
3368	16540	29553	1.74	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3368	16540	29554	1.74	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4380	17523	30504	5.41	1.0E-86	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4743	17878	30861	0.94	1.0E-86	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
5670	18864	32149	1.85	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
11905	18864	32149	1.63	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5472	18872		1.84	9.0E-87	AI150703.1	EST_HUMAN	q977c09.x1 Soares fetal heart NHH19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10 ;
7606	20676	34150	1.82	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7606	20676	34151	1.82	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
492	13686	26720	49.58	8.0E-87	X62245.1	NT	O cuniculus mRNA for elongation factor 1 alpha
2369	15900	28626	3.27	7.0E-87	BF063211.1	EST_HUMAN	788902.x1 NCJ CGAP_Cot16 Homo sapiens cDNA clone IMAGE:3322779 3'
2369	15900	28627	3.27	7.0E-87	BF063211.1	EST_HUMAN	788902.x1 NCJ CGAP_Cot16 Homo sapiens cDNA clone IMAGE:3322779 3'
6530	19694	33067	1.38	7.0E-87	AW890336.1	EST_HUMAN	MRO-NT0039-020500-004-e11 NT0039 Homo sapiens cDNA
8384	21465	34960	0.66	7.0E-87	BE712961.1	EST_HUMAN	IL3-HT0619-060700-198-D10 HT0619 Homo sapiens cDNA
8653	21096	34910	0.66	7.0E-87	BE712961.1	EST_HUMAN	IL3-HT0619-060700-198-D10 HT0619 Homo sapiens cDNA
10278	23311	36907	3.38	7.0E-87	AL043314.2	EST_HUMAN	DKFZP434N0323_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZP434N0323 5'
10276	23311	36908	3.38	7.0E-87	AL043314.2	EST_HUMAN	DKFZP434N0323_1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZP434N0323 5'
10686	25855		0.53	7.0E-87	A081565.1	EST_HUMAN	alpha5h01.s1 Soares NHH1MPu_S1 Homo sapiens cDNA clone IMAGE:1680657 3'
11129	24201	37825	6.59	7.0E-87	K03002.1	NT	Human mRNA from chromosome 16 gene with homology to MHC-HLA-SB-1 Intron A
11129	24201	37826	6.59	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 Intron A
3815	16779	29794	1.19	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
6551	19713	33089	1.47	6.0E-87	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
10963	24044		4.48	6.0E-87	11432444	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC63102), mRNA
1184	14347	27404	1.62	6.0E-87	AA382811.1	EST_HUMAN	EST196094 Testis I Homo sapiens cDNA 5' end
12603	14347	27404	2.58	6.0E-87	AA382811.1	EST_HUMAN	EST196094 Testis I Homo sapiens cDNA 5' end
988	14160	27220	1.37	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1189	14361	27420	7.91	4.0E-87	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1461	14614	27696	1.31	4.0E-87	R78133.1	EST_HUMAN	y80710.r1 Soares placenta Nb21P Homo sapiens cDNA clone IMAGE:146578 5' similar to contains Alu repetitive element
2086	15226	28348	2.28	4.0E-87	AB007925.1	NT	Homo sapiens mRNA for KIAA0456 protein, partial cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2143	16276	28402	1.29	4.0E-87	R78133.1	EST_HUMAN	y80f10.1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145579 5' similar to contains Alu repetitive element
2143	15279	28403	1.29	4.0E-87	R78133.1	EST_HUMAN	y80f10.1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145579 5' similar to contains Alu repetitive element
2493	15620	28738	0.99	4.0E-87	7706298	NT	Homo sapiens CGI-60 protein (LOC51628), mRNA
2493	15620	28739	0.99	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51628), mRNA
3553	18718	29732	3.81	4.0E-87	5174874	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) hemolysis); translocated to, 4 (MLLT4) mRNA
5562	18759	31798	4.6	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLLOCATION VARIANT 2)
5869	19059	32386	0.58	4.0E-87	U85429.1	NT	Human transcription factor NFATx3 mRNA, complete cds
6170	19348	32692	4.34	4.0E-87	BE247284.1	EST_HUMAN	TCBAP1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HQSC project=TCBA Homo sapiens cDNA clone TCBAP4051
7848	20503	34406	0.71	4.0E-87	11425291	NT	Homo sapiens KIAA1072 protein (KIAA1072), mRNA
7848	20503	34407	0.71	4.0E-87	11425291	NT	Homo sapiens KIAA1072 protein (KIAA1072), mRNA
7950	21000	34510	3.84	4.0E-87	L48524.1	NT	Homo sapiens tuberin (TSC2) gene, exon 10
11437	24498	38165	3.42	4.0E-87	M80876.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12705	26023	31671	1.27	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12705	26023	31672	1.27	4.0E-87	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12898	25563		58.7	4.0E-87		NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA
2836	19550	29057	14.35	2.0E-87	4885420	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA
3884	17043	30042	1.02	2.0E-87	AU116935.1	EST_HUMAN	AU116935 HEMBA1 Homo sapiens cDNA clone HEMBA1000307 5'
5033	18161	31136	3.2	2.0E-87	BF376311.1	EST_HUMAN	CMO-TN0038-150900-552-108 TN0038 Homo sapiens cDNA
5076	18204	31176	0.8	2.0E-87	BE175478.1	EST_HUMAN	RC5-HT0560-200300-031-G04 HT0580 Homo sapiens cDNA
5778	18970	32275	12.22	2.0E-87	BE734190.1	EST_HUMAN	801569041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
5778	18970	32276	12.22	2.0E-87	BE734190.1	EST_HUMAN	801569041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
6456	19623		4.87	2.0E-87	BE597193.1	EST_HUMAN	801341383F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3683348 5'
6838	19991	33399	0.79	2.0E-87	N48128.1	EST_HUMAN	y21e07.11 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:243396 5'
6920	20235	33668	0.75	2.0E-87	AV654143.1	EST_HUMAN	AV654143 GLC Homo sapiens cDNA clone GLCDSG04 3'
7324	20408	33868	1.35	2.0E-87	BE29432.1	EST_HUMAN	801176032F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531511 5'
7374	20453	33918	0.7	2.0E-87	11433048	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
7611	20581	34157	36.59	2.0E-87	N48128.1	EST_HUMAN	y21e07.11 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:243396 5'
7864	20918	34424	35.3	2.0E-87	N48128.1	EST_HUMAN	y21e07.11 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:243396 5'
8589	21670	36209	3.35	2.0E-87	X52851.1	NT	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
9988	23027		4.86	2.0E-87	BE531136.1	EST_HUMAN	801278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610539 5'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1209	15899		2.2	1.0E-87	7705983	NT	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA
1463	14616	27698	1.61	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0265-141098-001-g04 CT0265 Homo sapiens cDNA
1463	14616	27699	1.61	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0265-141098-001-g04 CT0265 Homo sapiens cDNA
3801	16962	29996	5.18	1.0E-87	Y00052.1	NT	Human mRNA for T-cell cyclophilin
3828	16988	29991	2.3	1.0E-87	4758827	NT	Homo sapiens neuritin III (NRXN3) mRNA
6356	19528	32883	1.63	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
6356	19528	32884	1.63	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7333	20414	33876	1.09	1.0E-87	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
7558	20690	34105	1.05	1.0E-87	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7707	20772	34257	0.92	1.0E-87	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
8307	21389	34912	9.93	1.0E-87	AF214962.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
9110	22189	35732	0.95	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9110	22189	35733	0.96	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9833	22873	36456	2.92	1.0E-87	BE818183.1	EST_HUMAN	RC8-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
9833	22873	36457	2.92	1.0E-87	BE818183.1	EST_HUMAN	RC8-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
10584	23618	37225	0.88	1.0E-87	M34426.1	NT	Human L-plastin mRNA, 5' end
10970	24050	37983	2.11	1.0E-87	5729867	NT	Homo sapiens hec domain and RLD 2 (HERC2), mRNA
11247	24316		1.66	1.0E-87	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
12701	26190		2.31	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
13228	25798	31890	1.22	1.0E-87	AF109558.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 9
13228	25798	31891	1.22	1.0E-87	AF109558.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 9
1130	14296	27350	8.48	9.0E-88	AF167465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1390	14635	27809	2.94	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
1390	14635	27610	2.94	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
2189	15324	28449	0.99	9.0E-88	7681701	NT	Homo sapiens DKFZP596P1622 protein (DKFZP596P1622), mRNA
3717	16978	29863	1	9.0E-88	AL163209.2	NT	H. sapiens ECE-1 gene (exon 9)
4384	17527	30508	2.87	9.0E-88	X91929.1	NT	H. sapiens ECE-1 gene (exon 9)
4384	17527	30509	2.97	9.0E-88	X91929.1	NT	H. sapiens ECE-1 gene (exon 9)
9223	22301	35845	4.04	6.0E-88	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1875	15019		1.22	5.0E-88	7681887	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
2704	15822	28939	3.65	5.0E-88	N89399.1	EST_HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
3064	16240	29260	0.62	5.0E-88	AF114488.1	NT	Homo sapiens intrasectin short isoform (ITSN) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3076	16251	29272	0.71	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
3075	16251	29273	0.71	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
3476	16643		2.78	5.0E-88	AF114488.1	EST_HUMAN	wf68h08.x1 NCJ_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to contains Alu repetitive element; contains element MER22 repetitive element;
3625	16789	29806	0.75	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
4869	17692	30879	0.71	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
6910	20228	33658	2.87	5.0E-88	AF114488.1	EST_HUMAN	yn08b10.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:47129 5'
8114	21196	34715	2.67	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
9512	22577	36143	0.63	5.0E-88	AF114488.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
1380	14515	27589	0.96	4.0E-88	BF091229.1	EST_HUMAN	602154958F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295775 5'
1380	14515	27589	0.96	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050800-004-f10 TN0028 Homo sapiens cDNA
5244	18365	31333	0.65	4.0E-88	BF670714.1	EST_HUMAN	PM1-TN0028-050800-004-f10 TN0028 Homo sapiens cDNA
7392	20470	33836	1.7	4.0E-88	11416885	NT	802149702F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4290975 5'
11150	24221	37849	1.64	4.0E-88	4502894	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFBI), mRNA
11779	24769	38464	1.72	4.0E-88	7661847	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
11779	24769	38465	1.72	4.0E-88	7661847	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
750	13931	28974	1.25	3.0E-88	11545800	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
1855	15001		3.09	3.0E-88	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
3013	16189	29214	6.08	3.0E-88	N66951.1	EST_HUMAN	z48f12 s1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:295823 3'
4355	17498	30477	0.81	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4355	17498	30478	0.81	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4600	17737		4.81	3.0E-88	11428300	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
5414	18616	31590	2.79	3.0E-88	11429587	NT	Homo sapiens valosin-containing protein (VCP), mRNA
5703	18698	32188	3.63	3.0E-88	9988888	NT	Homo sapiens polycythemia rubra vera 1; cell surface receptor (PRV1), mRNA
5822	19012	32318	3.9	3.0E-88	11420897	NT	Homo sapiens v-ral simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
6280	19463	32815	0.72	3.0E-88	11417370	NT	Homo sapiens Interleukin 13 (IL13), mRNA
6543	25826	33080	0.84	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6543	25826	33081	0.84	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
7211	20070	33489	15.52	3.0E-88	AF279285.1	NT	Homo sapiens putative anion transporter 1 mRNA, complete cds
7712	20777	34263	5.53	3.0E-88	11436400	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
8105	21187	34707	9.3	3.0E-88	11421726	NT	Homo sapiens growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) (GDF5), mRNA
8390	21471	34997	1.58	3.0E-88	AF034374.1	NT	Homo sapiens myoderm cofactor biosynthesis protein A and myoblast cofactor biosynthesis protein C mRNA, complete cds

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9834	21077	34589	2.14	3.0E-88	11526282	NT	Homo sapiens yers avian erythroblast virus E28 oncogene related (ERG), mRNA
10132	23170	36767	0.76	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
10132	23170	36768	0.76	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
10162	23189	36784	0.6	3.0E-88	11439085	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
12424	25301		2.49	3.0E-88	11417974	NT	Homo sapiens transcobalamin II, macrocytic anemia (TCN2), mRNA
12439	26030	31676	1.63	3.0E-88	11430480	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13223	25766	31889	1.31	3.0E-88	11526140	NT	Homo sapiens protease, serine, 7 (enterokinase) (PRSS7), mRNA
1061	14227	27283	6.85	2.0E-88	7305188	NT	Homo sapiens Caldesin, presenilin-binding protein, EF hand transcription factor (CSEN), mRNA
1663	14806	27891	4.24	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1789	14838	28031	6.83	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3554	18719	28733	2.9	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4545	17883	30665	1.83	2.0E-88	5031666	NT	Homo sapiens dynein, axonemal, light polypeptide 4 (DNAI4), mRNA
6032	16216	32636	4.98	1.0E-88	AW139565.1	EST_HUMAN	UIH-B11-aea-d-04-0-UI.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718760 3'
6032	19215	32537	4.98	1.0E-88	AW139565.1	EST_HUMAN	UIH-B11-aea-d-04-0-UI.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718760 3'
6783	18938	33334	21.86	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6783	18938	33335	21.66	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
7271	20354	33807	1.52	1.0E-88	AB69034.1	EST_HUMAN	wq70a12 x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2476806 3'
7394	20415	33877	3.7	1.0E-88	AA488981.1	EST_HUMAN	aa54a11.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP:80272.2
8331	21413	34839	0.51	1.0E-88	AF135183.1	NT	Homo sapiens Recq helicase 5 (RECQ5) gene, alternative splice products, complete cds
9443	22559	36122	0.76	1.0E-88	AA190388.1	EST_HUMAN	zp87c02.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:627170 5' similar to SW:POL.1 HUMAN P40266 RETROVIRUS-RELATED POL POLYPEPTIDE ;
9778	22818	36396	2.83	1.0E-88	AL048314.2	EST_HUMAN	DKFZp434N0323 J1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
11790	23916	37541	3.35	1.0E-88	AA891479.1	EST_HUMAN	os91a03.s1 NCL CGAP_GC3 Homo sapiens cDNA clone IMAGE:1612756 3' similar to gb:U16342
12865	25442		4.28	1.0E-88	AL163246.2	NT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
13232	25800	31850	1.54	1.0E-88	AW451780.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
11194	24283	37898	8.14	9.0E-89	11421238	NT	UIH-B13-alk-b-03-0-UI.s1 NCL CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2797084 3'
2785	15910	28019	1.75	8.0E-89	BE311557.1	EST_HUMAN	Homo sapiens transgelin 2 (TAGLN2), mRNA
7072	20125	33541	1.14	8.0E-89	11421514	NT	601142408F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3508186 5'
448	13642	26680	1.41	7.0E-89	7657213	NT	Homo sapiens similar to serma domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
446	13642	26681	1.41	7.0E-89	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
5005	18134	31108	2.71	7.0E-89	4557390	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
							Homo sapiens complement component 8, beta polypeptide (C8B) mRNA

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
5046	18174	31151	7.29	7.0E-89	AL045748.1	EST_HUMAN	DKFZp434E246_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434E246 5'
5547	18744	31778	1.22	7.0E-89	X99832.1	NT	H sapiens CLN3 gene, complete cds
5547	18744	31779	1.22	7.0E-89	X99832.1	NT	H sapiens CLN3 gene, complete cds
6473	19640	33000	1.57	7.0E-89	7549808	NT	H sapiens CLN3 gene, complete cds
6473	19640	33001	1.57	7.0E-89	7549808	NT	H sapiens CLN3 gene, complete cds
7668	20734	34211	1.84	7.0E-89	11420754	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
8083	21145	34664	0.88	7.0E-89	11417118	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
8083	21145	34665	0.88	7.0E-89	11417118	NT	Homo sapiens plasmin 3 (T isoform) (PLS3), mRNA
8674	21754	35289	0.83	7.0E-89	J02923.1	NT	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA
10750	23783	37395	1.34	7.0E-89	X62048.1	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10750	23783	37396	1.34	7.0E-89	X62048.1	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10768	23801	37423	1.35	7.0E-89	AB020630.1	NT	Human 65-kilodalton phosphoprotein (p65) mRNA, complete cds
10768	23801	37424	1.35	7.0E-89	AB020630.1	NT	H sapiens Wee1 tu gene
11515	24572	38250	2.66	7.0E-89	MS9783.1	NT	H sapiens Wee1 tu gene
1048	14214	27271	1.39	6.0E-89	5803114	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
2287	15419	28551	2.52	6.0E-89	4508124	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
2504	15531	28750	1.61	6.0E-89	4507788	NT	Homo sapiens aldose reductase (AR) gene, segment 2
4759	17894	30873	3.79	6.0E-89	AB007866.2	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
4759	17894	30874	3.79	6.0E-89	AB007866.2	NT	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4), mRNA
5295	18413	31378	0.81	6.0E-89	6808918	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
5295	18413	31380	0.81	6.0E-89	6808918	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
5186	18308	31273	3.36	5.0E-89	BE244923.1	EST_HUMAN	Homo sapiens mRNA for KIAA0409 protein, partial cds
5186	18308	31274	3.36	5.0E-89	BE244923.1	EST_HUMAN	Homo sapiens mRNA for KIAA0409 protein, partial cds
7761	20820	34310	1.02	4.0E-89	BE762749.1	EST_HUMAN	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
2941	18118	29131	1.83	3.0E-89	AI097618.1	EST_HUMAN	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
7260	20372	33828	1.3	3.0E-89	AI217350.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383
11039	24118	37751	2.29	3.0E-89	NS7367.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383
12790	25916	31863	1.52	3.0E-89	AV708431.1	EST_HUMAN	cDNA clone TCBAP0383
12886	25587	31959	1.82	3.0E-89	AV708749.1	EST_HUMAN	QV3-NT0022-090600-219-g03 NT0022 Homo sapiens cDNA
							EST388260 MAGI2 resequencing; MAGN Homo sapiens cDNA
							qht7606.x1 Scores_NFL_T_CBC_S1 Homo sapiens cDNA clone IMAGE:184815 3'
							yw8611.r1 Scores_placenta_8109weeks_2NbpHP69W Homo sapiens cDNA clone IMAGE:259148 5'
							similar to SW:P14K_HUMAN P42366 PHOSPHATIDYLINOSITOL 4-KINASE ALPHA
							AV708431 ADC Homo sapiens cDNA clone ADCARE02 5'
							AV708749 ADB Homo sapiens cDNA clone ADBBGA01 5'

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
129	13816	26056	0.73	2.0E-89	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
129	13816	26657	0.73	2.0E-89	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
421	13816	26656	0.89	2.0E-89	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
421	13816	26657	0.89	2.0E-89	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
543	13736	26760	0.63	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2845	16122	29135	1.53	2.0E-89	AI222095.1	EST_HUMAN	q95c08.x1 Sources_NFL_T_OBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131
4263	17408	30394	1.18	2.0E-89	AF089807.1	NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element
4269	17414	30402	5.14	2.0E-89	X58742.1	NT	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds
4269	17414	30403	5.14	2.0E-89	X58742.1	NT	H. sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4469	17609	30387	1.13	2.0E-89	AL163203.2	NT	H. sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4619	17786	30738	1	2.0E-89	AJ007378.1	NT	Homo sapiens chromosome 21 segment HS21C003
5459	18659	31842	1.39	2.0E-89	BE541744.1	EST_HUMAN	Homo sapiens GGT gene, exon 5
5598	18793	31842	3.55	2.0E-89	AB007546.1	NT	60108596F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452423 5'
5608	19098	32412	1.5	2.0E-89	U03985.1	NT	Homo sapiens gene for LECT2, complete cds
6339	19508	32866	0.79	2.0E-89	AL163285.2	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
7847	20902	34405	5.28	2.0E-89	U81004.1	NT	Homo sapiens chromosome 21 segment HS21C085
8119	21201	34722	3.11	2.0E-89	11428801	NT	Human GT24 (GT24) mRNA, partial cds
8612	21692	35228	0.9	2.0E-89	AJ245503.1	NT	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA
8453	22659	36139	0.72	2.0E-89	AB037764.1	NT	Homo sapiens partial mRNA for PEX3 related protein
10015	23053	36847	1.22	2.0E-89	AF170814.1	NT	Homo sapiens mRNA for KIAA1333 protein, partial cds
10015	23053	36848	1.22	2.0E-89	AF170814.1	NT	Homo sapiens CaBP5 (CaBP5) gene, exon 5
11655	24734	38425	2.53	2.0E-89	11434411	NT	Homo sapiens CaBP5 (CaBP5) gene, exon 5
11871	24859	38554	3.52	2.0E-89	11433673	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
12017	25001	38703	1.64	2.0E-89	U10892.1	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
12877	25584		4.25	2.0E-89	AF156981.1	NT	Human Mage-7 antigen (MAGE7) pseudogene, complete cds
11877	24865	38561	6.88	1.0E-89	BF198052.1	EST_HUMAN	Human sapiens human endogenous retrovirus W gagC3.37 G gag (gag) gene, complete cds
11877	24865	38562	6.88	1.0E-89	BF198052.1	EST_HUMAN	h181d09.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O64778 O64778
11877	24865	38562	6.88	1.0E-89	BF198052.1	EST_HUMAN	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;
11877	24865	38562	6.88	1.0E-89	BF198052.1	EST_HUMAN	h181d09.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O64778 O64778
11877	24865	38562	6.88	1.0E-89	BF198052.1	EST_HUMAN	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8422	21503	35035	1.07	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
8422	21503	35036	1.07	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1088	14254	27309	4.38	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1089	14254	27309	2.91	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1381	18035	27591	3.28	8.0E-90	BE670561.1	EST_HUMAN	783608.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
1381	18035	27592	3.28	8.0E-90	BE670561.1	EST_HUMAN	783608.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
8757	21836	35377	0.6	8.0E-90	BE177830.1	EST_HUMAN	RC1-HT0598-120403-022-008 HT0598 Homo sapiens cDNA
10939	24021	37654	1.38	8.0E-90	AI222095.1	EST_HUMAN	qq96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYL-TRANSPETIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
10939	24021	37655	1.38	8.0E-90	AI222095.1	EST_HUMAN	qq96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYL-TRANSPETIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
859	14038		6.81	7.0E-90	AF223391.1	NT	spliced
8619	21699		2.14	7.0E-90	AA782977.1	EST_HUMAN	ai63d08.s1 Soares_testis_NHT Homo sapiens cDNA clone 1375503 3'
9168	22244	38787	2.13	7.0E-90	BE862526.2	EST_HUMAN	601655837R1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3855824 3'
9168	22244	38788	2.13	7.0E-90	BE862526.2	EST_HUMAN	601655837R1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3855824 3'
10220	23256	38844	0.46	7.0E-90	AW273794.1	EST_HUMAN	xv24a02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2814028 3'
10340	23375	36985	4.2	7.0E-90	H68849.1	EST_HUMAN	yr86e04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP-C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
10340	23375	36986	4.2	7.0E-90	H68849.1	EST_HUMAN	yr86e04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP-C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
10672	23706	37314	0.82	7.0E-90	BF528085.1	EST_HUMAN	602071208F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4214257 5'
3136	16312	28324	1.18	6.0E-90	X91926.1	NT	H. sapiens ECE-1 gene (exon 6)
3136	16312	29325	1.16	6.0E-90	X91926.1	NT	H. sapiens ECE-1 gene (exon 6)
4342	17485	30467	11.21	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
4342	17485	30468	11.21	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
6105	19285	32618	2.84	6.0E-90	U77700.1	NT	Homo sapiens HsGON1 mRNA, partial cds
6105	19285	32619	2.84	6.0E-90	U77700.1	NT	Homo sapiens HsGON1 mRNA, partial cds
8522	21603	35140	4.01	6.0E-90	4504794	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
8522	21603	35141	4.01	6.0E-90	4504794	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
159	13384		27.59	5.0E-90	AB035344.1	NT	Homo sapiens TCE6 gene, exon 1-10b
1216	14380	27439	6.22	5.0E-90	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1864	15010	28116	1.07	5.0E-90	AI222095.1	EST_HUMAN	qg96c08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb.J04131 GAMMA-GLUTAMYL-TRANSEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element;
1864	15010	28117	1.07	5.0E-90	AI222095.1	EST_HUMAN	qg96c08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb.J04131 GAMMA-GLUTAMYL-TRANSEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element;
2622	16745	28869	2.37	5.0E-90	AF114487.1	NT	GAMMA-GLUTAMYL-TRANSEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element;
4662	17797	30784	4.51	5.0E-90	4506354	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4683	17818	30806	0.78	5.0E-90	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
5708	18901	32198	2.86	5.0E-90	Z18411.1	NT	H. sapiens mRNA encoding phospholipase c
5726	18919		0.72	5.0E-90	AF008915.1	NT	Homo sapiens EVI5 homolog mRNA, complete cds
5810	19000	32307	1.32	5.0E-90	AB015617.1	NT	Homo sapiens ELKS mRNA, complete cds
5886	18901	32196	1.88	5.0E-90	Z18411.1	NT	H. sapiens mRNA encoding phospholipase c
5869	20021	33430	0.95	5.0E-90	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC66934), mRNA
5869	20021	33431	0.95	5.0E-90	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC66934), mRNA
7364	20443	33905	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7364	20443	33906	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7736	20767	34286	7.98	5.0E-90	4557258	NT	Homo sapiens adenylylase cyclase 9 (ADCY9) mRNA
8488	21668	35107	4.89	5.0E-90	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
9852	22922	36506	1.17	5.0E-90		NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
10488	23523	37133	0.71	5.0E-90	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10663	23697	37308	0.66	5.0E-90	11433724	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA
10723	23756	37362	0.53	5.0E-90	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10723	23756	37363	0.53	5.0E-90	7662051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
12948	25659		1.77	5.0E-90	AB011398.1	NT	Homo sapiens gene for AF-6, complete cds
13000	25849		4.54	5.0E-90	AF023366.1	EST_HUMAN	er78h05.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2128761 3'
313	13529	26562	2.04	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
313	13529	26563	2.04	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
1110	14275	27332	4.36	4.0E-90	4505316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1724	14874	27865	13.42	4.0E-90	X36033.1	NT	H. sapiens gene encoding discoidin receptor tyrosine kinase, exon 16
2923	16101	29114	0.74	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
2923	16101	29115	0.74	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3088	18264	29281	0.93	4.0E-90	6806818	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3088	18284	29282	0.93	4.0E-90	6806818	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4779	17914	30600	3.63	4.0E-90	D8787.5.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4919	18048	31037	2.1	4.0E-90	A8033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cde
4939	18059	31047	1.91	4.0E-90	M95967.1	NT	Human prohormone converting enzyme (NEC2) gene, exon 8
12885	16101	29114	1.74	4.0E-90	6806818	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12885	16101	29115	1.74	4.0E-90	6806818	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
8036	21119	34638	0.91	3.0E-90	BF516168.1	EST_HUMAN	U1H-BW1-amy-b-04-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
8036	21119	34639	0.91	3.0E-90	BF516168.1	EST_HUMAN	U1H-BW1-amy-b-04-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
11830	24816	38619	28.7	3.0E-90	BE563833.1	EST_HUMAN	607335244F1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3689147 5'
220	13442	28473	4.5	2.0E-90	BE537913.1	EST_HUMAN	607067378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453834 5'
1200	14362	27421	6.49	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1200	14362	27422	6.48	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
3948	17108	30103	2.95	2.0E-90	A1138213.1	EST_HUMAN	q64c02.X1 Soares_Placenta_8tc6weeks_2NblP8c9W Homo sapiens cDNA clone IMAGE:1713410 3'
4811	17944	30930	1.05	2.0E-90	A8006627.1	NT	similar to SW:OLF3_MOUSE P23275 OLFACTORY RECEPTOR OR3. ;
5029	18158	31135	10.16	2.0E-90	5729855	NT	Homo sapiens mRNA for KIAA0289 gene, partial cds
5866	19084	32395	0.6	2.0E-90	11625601	NT	Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
5896	19084	32396	0.6	2.0E-90	11625601	NT	Homo sapiens Rap2 interacting protein 8 (RIP8), mRNA
5903	19092	32406	3.89	2.0E-90	AW672666.1	EST_HUMAN	Homo sapiens Rap2 interacting protein 8 (RIP8), mRNA
9993	23032	36623	0.99	2.0E-90	11427320	NT	ba9d05.y8 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2899861 5' similar to TR:O75208 O75208 HYPOTHETICAL 33.5 KD PROTEIN. ;
9993	23032	36624	0.99	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (87kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
10165	23202	36795	1.46	2.0E-90	AU118985.1	EST_HUMAN	Homo sapiens similar to laminin receptor 1 (87kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
10165	23202	36796	1.46	2.0E-90	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
11758	23944	37471	3.06	2.0E-90	11024711	NT	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
287	13505	26539	4.1	1.0E-90	4502166	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
385	15983	26628	2.28	1.0E-90	AF231920.1	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
386	15983	26628	1.96	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
713	13805	26932	1.92	1.0E-90	AJ237589.1	NT	Homo sapiens chromosome 21 unknown mRNA
713	13899	26933	1.92	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBOX20 gene), partial

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Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
748	13928	28971	17.93	1.0E-90	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
748	13929	28972	17.93	1.0E-90	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1134	14298		2.25	1.0E-90	4507828	NT	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLF7), mRNA
1334	14481	27560	3.48	1.0E-90	AF086154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1334	14491	27561	3.46	1.0E-90	AF086154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1701	14833		2.61	1.0E-90	BE379884.1	EST_HUMAN	601159563F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3611118 5'
1951	15294	28195	3.73	1.0E-90	11420614	NT	Homo sapiens similar to SALL1 (sal Drosophila)-like (LOC57167), mRNA
2615	16093	29106	6.46	1.0E-90	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (C2ORF2), mRNA
3054	17112	30112	0.59	1.0E-90	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3954	17112	30113	0.59	1.0E-90	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
4543	17681	30663	1.68	1.0E-90	AF167340.1	NT	Homo sapiens soluble interfeukin 1 receptor accessory protein (IL-1RAP) gene, exon 8, alternative exons 9
5792	18983	32286	2.08	1.0E-90	AB014533.1	NT	and complete cds, alternatively spliced
5659	19145	32460	0.9	1.0E-90	11426910	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
7220	20855	33500	0.73	1.0E-90	U91984.1	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7849	20904	34408	2.31	1.0E-90	11426758	NT	Human retina-derived POU domain factor-1 mRNA, complete cds
8021	22100	35640	3	1.0E-90	11422088	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
9493	22550		0.92	1.0E-90	AF163854.1	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
8618	22681	36148	1.4	1.0E-90	11422109	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
8518	22581	36149	1.4	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
4313	17456	30444	8.29	8.0E-91	D12234.1	EST_HUMAN	Homo sapiens CGI-15 protein (LOC51006), mRNA
8501	21582	35118	1.14	7.0E-91	11419234	NT	HUM0005381 Liver HepG2 cell line. Homo sapiens cDNA clone s381.3'
10507	23542	37153	0.65	7.0E-91	A1904151.1	EST_HUMAN	Homo sapiens mekoin, ring finger protein, 1 (MKRN1), mRNA
3563	16728	29744	1.85	5.0E-91	AA702794.1	EST_HUMAN	CM-BT043-090286-075 BT043 Homo sapiens cDNA
4639	17775	30755	1.14	5.0E-91	AU143539.1	EST_HUMAN	Z60504.s1 Soares_fetal_liver_spleen_TNFLS_S1 Homo sapiens cDNA clone Y78AA1002087 5'
4639	17775	30756	1.14	5.0E-91	AU143539.1	EST_HUMAN	AU143539 Y78AA1 Homo sapiens cDNA clone Y78AA1002087 5'
4930	18090	31042	0.97	5.0E-91	7110634	NT	AU143539 Y78AA1 Homo sapiens cDNA clone Y78AA1002087 5'
4930	18090	31043	0.67	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
6750	19906	33300	1.25	5.0E-91	A1879995.1	EST_HUMAN	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
8400	21481	35009	1.33	5.0E-91	BF314682.1	EST_HUMAN	au49f08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518121 3' similar to SW-ASPG_FLAME 047698 N4 (BETAN-ACETYLGLUCOSAMINYL)-L-ASPARAGINASE PRECURSOR
8980	22038	35581	1.47	5.0E-91	AV649878.1	EST_HUMAN	601901624F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4730833 5'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8860	22038	35882	1.47	5.0E-91	AV648878.1	EST_HUMAN	AV648878 GLC Homo sapiens cDNA clone GLC8YF08 3'
12971	25631		1.61	5.0E-91	AI193568.1	EST_HUMAN	q970T11.X1 Soares_fetal_lung_NbHL10W Homo sapiens cDNA clone IMAGE:1744385 3' similar to contains
3272	16446	29465	1.58	4.0E-91	AF156776.1	NT	MIR.b2 MIR MIR repetitive element;
3272	16446	29466	1.58	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
11171	24242	37875	3.22	4.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
12376	25267	32074	3.27	4.0E-91	M77894.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #36205) Homo sapiens cDNA clone HHCMC60 similar to
12376	25267	32119	3.27	4.0E-91	M77894.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #36205) Homo sapiens cDNA clone HHCMC60 similar to
12685	25457	32019	1.16	4.0E-91	M77894.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #36205) Homo sapiens cDNA clone HHCMC60 similar to
12685	25457	32020	1.16	4.0E-91	M77894.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #36205) Homo sapiens cDNA clone HHCMC60 similar to
1647	14800	27885	2.17	3.0E-91	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
1832	15993	28077	1.1	3.0E-91	AF265555.1	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
3420	15589	29605	1.29	3.0E-91	AL163283.2	NT	Homo sapiens ubiquitin-conjugating BIR-domain enzyme APOLLON mRNA, complete cds
3551	16716	29729	4.65	3.0E-91	AB033104.1	NT	Homo sapiens chromosome 21 segment HS21C083
3551	16716	29730	4.85	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3688	17047	30047	0.93	3.0E-91	AF084530.1	NT	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cds
4714	17849	30832	4.41	3.0E-91	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
5094	18222	31193	1.48	3.0E-91	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5094	18222	31194	1.48	3.0E-91	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5803	18993	32296	3.55	3.0E-91	11434964	NT	Homo sapiens epididymal secretory protein (19.5KD) (HE1), mRNA
6434	18602		2.56	3.0E-91	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
8713	19871	33262	2.98	3.0E-91	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
6713	19871	33263	2.98	3.0E-91	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
7616	20871	34368	4.48	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
7616	20871	34369	4.48	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
8132	21214	34735	0.69	3.0E-91	6601589	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8970	22046	35592	2.73	3.0E-91	D18494.1	NT	Human mRNA for very low density lipoprotein receptor, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9488	22545	36108	0.73	3.0E-91	AB011168.1	NT	Homo sapiens mRNA for KIAA0564 protein, partial cds
11480	24639	38207	1.49	3.0E-91	AB029003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
11480	24639	38208	1.49	3.0E-91	AB029003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
13037	18488	31430	8.54	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
13037	18488	31431	8.54	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
48	13288	26300	2.94	1.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1274	14431	27502	2.74	1.0E-91	AW449745.1	EST_HUMAN	UHF-H13-aka-d-01-q-U1a1 NCJ CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2735280 3'
5529	18726	31742	0.78	1.0E-91	11434402	NT	Homo sapiens hypothetical protein PRO1855 (PRO1855), mRNA
5983	20211	33640	1.98	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCJ CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157804 5'
5983	20211	33641	1.98	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCJ CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157804 5'
12130	25110	38814	1.48	1.0E-91	AV763033.1	EST_HUMAN	AV763033 MDS Homo sapiens cDNA clone MDSBEC03 5'
12540	26114	38814	1.5	1.0E-91	H15212.1	EST_HUMAN	Yn30603.r1 Scores infant brain T1N1B Homo sapiens cDNA clone IMAGE:49587 5'
1270	14428	27496	5.77	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
1270	14428	27497	5.77	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
5309	18428	31398	0.68	9.0E-92	AJ002640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
5579	18774	31820	5.86	9.0E-92	J03007.1	NT	Human Ncr-K+ ATPase alpha-subunit mRNA, partial cds
5722	18916	32210	2.82	9.0E-92	11427149	NT	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA
5983	19745	33127	3.77	9.0E-92	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
8041	21124	34644	0.55	9.0E-92	AJ250566.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8041	21124	34645	0.55	9.0E-92	AJ250566.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8569	21650	35191	1.53	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8569	21650	35192	1.53	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9474	22531	36086	1.83	9.0E-92	11422088	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
95	13330	26357	6.63	8.0E-92	W26367.1	EST_HUMAN	2613 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
296	13513	26547	3.09	8.0E-92	BE388363.1	EST_HUMAN	601273513F1 NIH_MGC_2D Homo sapiens cDNA clone IMAGE:3814687 5'
1866	18012	28119	1.43	8.0E-92	11434722	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG), mRNA
1866	18012	28120	1.43	8.0E-92	11434722	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG), mRNA
5608	18707	31722	0.68	8.0E-92	AB048820.1	NT	Homo sapiens mRNA for KIAA1600 protein, partial cds
5615	18909	31877	0.8	8.0E-92	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6677	19836	33225	1.28	8.0E-92	AJ000979.1	NT	Homo sapiens MCP-4 gene
6680	19839	33228	0.97	8.0E-92	AF179428.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L), mRNA, complete cds
8283	21365	35235	0.55	8.0E-92	11416961	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8620	21700	35235	5.08	8.0E-92	L04193.1	NT	Human lens membrane protein (mp18) gene, exon 11

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8620	21700	35238	5.05	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8721	21801	35337	0.71	8.0E-92	11428369	NT	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA
9282	22339	35889	2.53	8.0E-92	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10232	23267	36857	0.91	8.0E-92	Y13828.1	NT	Homo sapiens mRNA for MBNL protein
11043	24121	37755	2.86	8.0E-92	AF074393.1	NT	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
11642	24722	38415	1.93	8.0E-92	4503340	NT	Homo sapiens dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST) mRNA
12740	25491	32028	1.59	8.0E-92	11434704	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
88	13305	26328	1.91	7.0E-92	M60878.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
246	16008	26498	1.71	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
246	16008	28498	1.71	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
604	13793		1.68	7.0E-92	AF007822.1	NT	Homo sapiens cytoplasmic Seprase truncated isoform mRNA, complete cds
1309	14485	27533	1.94	7.0E-92	4502384	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2280	15393	28519	3.85	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2280	15393	28520	3.85	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2630	15753	28868	6.13	7.0E-92	AF167706.1	NT	Homo sapiens cyclidine-rich repeat-containing protein S52 precursor, mRNA, complete cds
2787	15903	29010	6.84	7.0E-92	6005738	NT	Homo sapiens NRAS-related gene (D1S165E), mRNA
3426	18486	29609	0.7	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
3426	18486	29610	0.7	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4710	17846	30828	1.19	7.0E-92	S71824.1	NT	N-GAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2860 nt]
4710	17846	30829	1.19	7.0E-92	S71824.1	NT	N-GAM=145 kDa neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2860 nt]
5284	18403	31371	0.98	7.0E-92	4506118	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
5376	18578	31448	5.51	7.0E-92	AA446206.1	EST_HUMAN	z668d12.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:781175 5'
2178	15313	28441	0.96	3.0E-92	11494814	NT	Homo sapiens Machado-Joseph disease (spinocerebellar ataxia 3, autosomal dominant, ataxin 3) (MJD), mRNA
2178	15313	28442	0.96	3.0E-92	11494814	NT	Homo sapiens Machado-Joseph disease (spinocerebellar ataxia 3, autosomal dominant, ataxin 3) (MJD), mRNA
2824	15938	29048	2.74	3.0E-92	BE909714.1	EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902839 5'
5997	19182	32504	3.96	3.0E-92	AA378336.1	EST_HUMAN	EST191020 Synovial sarcoma Homo sapiens cDNA 5' and similar to ribosomal protein S13
11002	24081	37716	3.25	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
11002	24081	37717	3.26	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12878	26198		1.67	3.0E-92	BF387138.1	EST_HUMAN	RC1-GN0021-240800-012-611 GN0021 Homo sapiens cDNA
26	13264	26266	1.54	2.0E-92	4501898	NT	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA
183	13405	26433	4.28	2.0E-92	11422948	NT	Homo sapiens hypothetical protein DJ462023.2 (DJ462023.2), mRNA
183	13405	26434	4.28	2.0E-92	11422948	NT	Homo sapiens hypothetical protein DJ462023.2 (DJ462023.2), mRNA
768	13949	26897	5.49	2.0E-92	BE289190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
768	13949	26898	5.49	2.0E-92	BE289190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1752	14901		1.62	2.0E-92	S78653.1	NT	m1g=mas-related Human, Genomic, 2416 nt
1890	15132	28238	2.53	2.0E-92	AI818119.1	EST_HUMAN	wk27407.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
1890	15132	28237	2.53	2.0E-92	AI818119.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
2020	15161	28265	1.01	2.0E-92	4507464	NT	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
2020	15161	28266	1.01	2.0E-92	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
2706	15245	28366	5.35	2.0E-92	4506860	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
2725	15943	28864	22.36	2.0E-92	6912457	NT	Homo sapiens syndecan 4 (emphiglycan, tyrodoan) (SDC4) mRNA
3701	16862	29864	1.02	2.0E-92	AF231919.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
3701	16862	29865	1.02	2.0E-92	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3777	16938	29944	7.02	2.0E-92	5803180	NT	Homo sapiens chromosome 21 unknown mRNA
4403	17546	30830	1.17	2.0E-92	M10976.1	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STP1), mRNA
5108	18238	37709	4.1	2.0E-92	AL040437.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
5879	19089	32377	0.64	2.0E-92	AF016635.1	NT	DKFZ434C0414.1 434 (synonym: hae3) Homo sapiens cDNA clone DKFZ434C0414 5'
6431	19598		7.19	2.0E-92	4504756	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6748	19904	33297	2.8	2.0E-92	AB028991.1	NT	Homo sapiens integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL) mRNA
7627	20687		0.61	2.0E-92	U67780.1	NT	Homo sapiens mRNA for KIAA1068 protein, partial cds
7657	20697		0.64	2.0E-92	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
9058	22195	35680	1.26	2.0E-92	AW340174.1	EST_HUMAN	Human NPY Y1-like receptor pseudogene mRNA, complete cds
10697	24076	37709	4.68	2.0E-92	11434900	NT	h0202.y1 Soares, NFL, I, GBC, S1 Homo sapiens cDNA clone IMAGE:280837; 3' similar to TR:002711
11257	24326	37865	3.22	2.0E-92	11434759	NT	002711 PRO-POL-OUTPASE POLYPROTEIN ;
11409	24470	38134	5.71	2.0E-92	AW836280.1	EST_HUMAN	Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA
11409	24470	38135	5.71	2.0E-92	AW836280.1	EST_HUMAN	Homo sapiens zinc finger protein 198 (ZNF198), mRNA
12758	25502	32035	8.46	2.0E-92	AB028016.1	NT	CM4-L70028-161299-062-g06 L70028 Homo sapiens cDNA
							CM4-L70028-161299-062-g06 L70028 Homo sapiens cDNA
							Homo sapiens mRNA for KIAA1063 protein, partial cds

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12782	25524	32005	1.96	2.0E-92	AF106868.1	NT	Homo sapiens adenylosuccinate lyase gene, complete cds
13066	15843	28954	73.58	2.0E-92	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1897	15040	28150	2.96	1.0E-92	R78078.1	EST_HUMAN	y80e08.t1 Soares placenta N62HP Homo sapiens cDNA clone IMAGE:145574 5'
1897	15040	28151	2.96	1.0E-92	R78078.1	EST_HUMAN	y80e08.t1 Soares placenta N62HP Homo sapiens cDNA clone IMAGE:145574 5'
2135	15271	28392	35.12	1.0E-92	4506668	NT	Homo sapiens ribosomal protein, large, P1 (RPLP1), mRNA
8441	21522	35051	0.82	1.0E-92	BE439825.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
							ig01102.x1 NCL CGAP CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN
8365	22440	35999	3.24	1.0E-92	A1380350.1	EST_HUMAN	Q18825 PROTEIN-TYROSINE PHOSPHATASE D1 contains Alu repetitive element; contains element MER17 repetitive element
8365	22440	36000	3.24	1.0E-92	A1380356.1	EST_HUMAN	ig01102.x1 NCL CGAP CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN
2085	15225	28347	3.63	9.0E-93	AU121681.1	EST_HUMAN	Q18825 PROTEIN-TYROSINE PHOSPHATASE D1 contains Alu repetitive element; contains element MER17 repetitive element
2100	15240		20.41	9.0E-93	AA316723.1	EST_HUMAN	AU121681 MAMMAT Homo sapiens cDNA clone MAMMA1000738 5'
							EST188414 HCC cell line (metastasis to liver in mouse) Homo sapiens cDNA 5' end similar to ribosomal protein L29
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
2712	15830		1.89	9.0E-93	AF223391.1	NT	
3703	16854	29857	1.35	9.0E-93	BE388571.1	EST_HUMAN	601281807F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832 5'
11947	24933		7.79	9.0E-93	11418628	NT	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
8723	19890	33271	2.4	8.0E-93	BF036384.1	EST_HUMAN	601480521F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3663908 5'
256	13475	26506	7.25	7.0E-93	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3144	18320	29332	0.74	8.0E-93	11628178	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
6819	19972	33380	0.97	8.0E-93	A3033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
7058	20109	33525	7.84	8.0E-93	AF095771.1	NT	Homo sapiens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds
1412	14566	27840	0.99	5.0E-93	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
1439	14592	27865	4.61	5.0E-93	AI674184.1	EST_HUMAN	wc09c08.x1 NCL CGAP P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1439	14592	27867	4.61	5.0E-93	AI674184.1	EST_HUMAN	wc09c08.x1 NCL CGAP P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1504	14657		4.17	5.0E-93	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
1869	19049	28123	1.03	5.0E-93	A1297710.1	NT	Homo sapiens mRNA for CDC2L5 protein kinase, (CDC2L5 gene), isoform 2
3305	16479	29500	3.73	5.0E-93	X04201.1	NT	Human skeletal muscle 1.3 kb mRNA for tropomyosin
5820	19107	32420	1.09	5.0E-93	M22678.1	NT	Human somatic cytochrome c (HC1) processed pseudogene, complete cds
							Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
6235	18410		1.75	5.0E-93	AF045555.1	NT	

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7892	20944	34450	3.52	5.0E-93	AF067136.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
8804	21893	35422	0.73	5.0E-93	4557626	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8804	21893	35423	0.73	5.0E-93	4557626	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8922	22892	36443	2.02	5.0E-93	AF274893.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10012	23050	36844	1.35	5.0E-93	5032166	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
10276	23310	36908	1.78	5.0E-93	AF069313.2	NT	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds
11064	24140	37775	1.92	5.0E-93	11439569	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
12651	25791	31921	2.31	5.0E-93	11471787	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
80	13325		6.83	4.0E-93	AA459933.1	EST_HUMAN	z650409.e1 Scars, testis, NHT Homo sapiens cDNA clone IMAGE:795688 3' similar to SW:CLPA_RAT
458	13653	26690	2.38	4.0E-93	4557879	NT	P37987 CALPONIN, ACIDIC ISOFORM ;
458	13653	26691	2.38	4.0E-93	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
763	13972	27024	1.16	4.0E-93	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
793	13972	27025	1.16	4.0E-93	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
1210	14371	27431	2.12	4.0E-93	8923668	NT	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA
2033	15174	28284	4.37	4.0E-93	AF047677.1	NT	Homo sapiens dysophlin (DMD) gene, deletion breakpoints 1-3 in intron 5
2318	18450	28582	1.19	4.0E-93	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
2672	16792	28909	1.16	4.0E-93	7656972	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
3650	16816	28831	0.73	4.0E-93	7705396	NT	Homo sapiens tumor antigen SLP-8p (HCO8), mRNA
4159	17310	30306	1.51	4.0E-93	4504854	NT	Homo sapiens interleukin 18 receptor 1 (IL18R1) mRNA
5136	16819	28831	0.76	4.0E-93	7705396	NT	Homo sapiens tumor antigen SLP-8p (HCO8), mRNA
5760	18952	32256	5.01	4.0E-93	T46994.1	EST_HUMAN	y694c12.r1 Stratagene liver (#837224) Homo sapiens cDNA clone IMAGE:79835 5' similar to similar to SP.A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN ,
11998	24459	38123	10.47	4.0E-93	AV692051.1	EST_HUMAN	AV692051 GKG Homo sapiens cDNA clone GKCDRF07 5'
3742	16903	29906	12.26	3.0E-93	BF690630.1	EST_HUMAN	60224654F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
3742	16903	29907	12.26	3.0E-93	BF690630.1	EST_HUMAN	60224654F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
4350	17493		2.6	3.0E-93	AF226896.1	NT	Homo sapiens tensin mRNA, complete cds
6893	19851	33242	1.31	3.0E-93	11428182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
11040	24119	37752	2.86	3.0E-93	AB24828.1	EST_HUMAN	w602405.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2304489 3'
195	13418	28447	5.98	2.0E-93	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
195	13418	28448	5.69	2.0E-93	AB015610.1	NT	Chlorocephus ethiops mRNA for ribosomal protein S4X, complete cds
333	13547	26578	13.77	2.0E-93	AL183285.2	NT	Homo sapiens chromosome 21 segment HS21C085
334	13547	26578	6.74	2.0E-93	AL183285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1646	14799	27884	3.9	2.0E-93	AF225896.1	NT	Homo sapiens tensin mRNA, complete cds
2199	15334	28461	2.23	2.0E-93	U40763.1	NT	Human Ck-associated RS cyclophilin CARS-Cyp mRNA, complete cds
2555	15680	28805	1.02	2.0E-93	BE252982.1	EST_HUMAN	601117586F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3359220 5'
5254	18374	31340	1.19	2.0E-93	BE252920.1	EST_HUMAN	601116810F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3357243 5'
5533	18730	31746	5.08	2.0E-93	AW964386.1	EST_HUMAN	EST378458 MAGE resequences, MAGH Homo sapiens cDNA
5544	18741	31775	0.7	2.0E-93	4758153	NT	Homo sapiens deafness, autosomal dominant 5 (DFNA5), mRNA
5690	18854		0.64	2.0E-93	BF351469.1	EST_HUMAN	QV3-HT0513-290300-126-104 HT0513 Homo sapiens cDNA
5754	18946	32248	1.08	2.0E-93	11430039	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
5768	18960	32261	0.76	2.0E-93	U74313.1	EST_HUMAN	HSU74313 Human chromosome 14 Homo sapiens cDNA clone 1-86
6822	19975		1.2	2.0E-93	AW50202.1	EST_HUMAN	U4-HF-BNG-eks-g-09-0-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078329 5'
11333	24396	38044	1.39	2.0E-93	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
11333	24396	38045	1.39	2.0E-93	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
12525	25358		1.78	2.0E-93	AA128735.1	EST_HUMAN	z29c10.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503348 3'
12624	25420		3.25	2.0E-93	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
12930	25613		6.34	2.0E-93	BF035327.1	EST_HUMAN	601456531F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3852088 5'
105	13341	26368	1.35	1.0E-93	AF236997.1	NT	Homo sapiens CTR1 pseudogene
105	13341	26369	1.35	1.0E-93	AF236997.1	NT	Homo sapiens CTR1 pseudogene
531	13724	26760	7.76	1.0E-93	7657018	NT	Homo sapiens hypothetical protein (DJ328E19.C1.1), mRNA
613	13802	26822	3.32	1.0E-93	AI146755.1	EST_HUMAN	oy84b08.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:1672503 3' similar to TR:Q62384 Q62384 ZINC FINGER PROTEIN.
896	14071	27136	3.43	1.0E-93	DB7675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1194	14356	27414	0.6	1.0E-93	4503872	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD67, mRNA
1265	14422	27487	7.22	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1265	14422	27488	7.22	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1376	14531	27604	9.7	1.0E-93	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
2414	15544	28672	1.08	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
2534	15659	28783	3.06	1.0E-93	AF05086.1	NT	Homo sapiens MHC class 1 region
2576	15702		1.29	1.0E-93	AL137200.1	NT	Novel human gene mapping to chromosome 1
2883	14480	27546	1.32	1.0E-93	BE297386.1	EST_HUMAN	601177686F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2883	14480	27547	1.32	1.0E-93	BE297386.1	EST_HUMAN	601177686F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'

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3000	16176	29197	5.86	1.0E-93	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
3287	16461		1.23	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
4549	17687	30868	3.28	1.0E-93	AF163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5348	18461	31426	0.92	1.0E-93	AF123498.1	NT	Homo sapiens estrogen receptor alpha (ESR1) gene, exon 6
5348	18461	31427	0.92	1.0E-93	AF123498.1	NT	Homo sapiens estrogen receptor alpha (ESR1) gene, exon 6
5684	18878	32167	2.39	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5684	18878	32168	2.39	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5885	19074	32383	1.2	1.0E-93	AF227138.1	NT	Homo sapiens candidate taste receptor T2R14 gene, complete cds
6037	19220	32543	10.78	1.0E-93	4557792	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) mRNA
6326	19498	32856	4.8	1.0E-93	7662241	NT	Homo sapiens KIAA0672 gene product (KIAA0672), mRNA
6931	20246	33679	1.94	1.0E-93	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7400	20478	33946	3.24	1.0E-93	D42072.1	NT	Human mRNA for NF1 N-isoform-exon11, complete cds
8455	21536	35066	2.29	1.0E-93	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
8740	21819	35353	1.15	1.0E-93	Y10163.1	NT	H. sapiens mRNA for MEMD protein
8850	21929	35468	1.14	1.0E-93	AF182032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds
9651	21094	34608	2.03	1.0E-93	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
9655	21098	34612	1.14	1.0E-93	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9787	22827	36403	3.9	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9787	22827	36404	3.9	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9928	22866	36556	1.24	1.0E-93	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10349	23384	36594	0.59	1.0E-93	11433848	NT	Homo sapiens nyanodine receptor 3 (RYR3), mRNA
12820	25547		1.62	1.0E-93	AJ230125.1	NT	Homo sapiens GGT1 gene, exon 1
12923	25608		3.71	1.0E-93	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
13108	25723	31941	1.36	1.0E-93	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
13123	26173		1.42	1.0E-93	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1) genes, complete cds
10819	23852		1.13	8.0E-94	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C009
4070	17226	30233	1.94	6.0E-94	AF142482.1	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
5483	18682	31698	3.51	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5483	18682	31699	3.51	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
6173	18949	32695	2.24	5.0E-94	AA722434.1	EST_HUMAN	z987g06.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409594 3'
7150	20285	33726	1.45	5.0E-94	AID15900.1	EST_HUMAN	o883d05.s1 Soares_fetal_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1623369 3'

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8840	21919	35457	0.85	5.0E-94	BF529115.1	EST_HUMAN	602042163F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4180023 5'
11215	24284	37922	1.43	5.0E-94	11423992	NT	Homo sapiens adenylate kinase 2 (AK2), mRNA
11215	24284	37923	1.43	5.0E-94	11423992	NT	Homo sapiens adenylate kinase 2 (AK2), mRNA
12503	26177	31558	3.8	5.0E-94	T89398.1	EST_HUMAN	Yd8804.s1 Soares fetal liver spleen 1MPLS Homo sapiens cDNA clone IMAGE:116239 3'
1690	15034		16.48	4.0E-94	L05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2723	18841	28952	0.99	4.0E-94	4560608	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3762	16923	29925	1.12	4.0E-94	AW197851.1	EST_HUMAN	xn89f12.x1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2701679 3'
3782	16923	29928	1.12	4.0E-94	AW197851.1	EST_HUMAN	xn89f12.x1 Soares_NFL_T_GBC S1 Homo sapiens cDNA clone IMAGE:2701679 3'
4840	17973	30983	3.06	4.0E-94	AI591312.1	EST_HUMAN	hw1110.x1 NCI_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2259403 3' similar to TR:Q15265 Q15265 PROTEIN TYROSINE PHOSPHATASE ;
6597	19757	33144	1.48	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6597	19757	33145	1.48	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
7052	20106		0.9	4.0E-94	L27385.1	NT	Homo sapiens huntingtin (HD) gene, exon 37
626	13811	26833	1.76	3.0E-94	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
738	13921	26961	1.13	3.0E-94	4502506	NT	Homo sapiens complement component 5 (C5) mRNA
1779	14928	28021	12.9	3.0E-94	AF167708.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
1779	14928	28022	12.9	3.0E-94	AF167708.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
1813	14992	28056	3.18	3.0E-94	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
4308	17449	30435	0.67	3.0E-94	AA464805.1	EST_HUMAN	zw03008.r1 Soares_tetal_tetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:774782 5'
4437	17577	30567	0.72	3.0E-94	AA781836.1	EST_HUMAN	ai59H06.s1 Soares_testis_NHT Homo sapiens cDNA clone 1376163 3'
5798	18988	32292	3.21	3.0E-94	11496288	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6279	19453	32801	1.13	3.0E-94	AB011536.1	NT	Homo sapiens mRNA for MEGF2, partial cds
6581	19743	33125	3.84	3.0E-94	11526228	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
7678	21027	34541	0.63	3.0E-94	4826883	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
8693	21474	35001	0.96	3.0E-94	AF152309.1	NT	Homo sapiens protocadherin alpha 13 (PCDH-alpha13) mRNA, complete cds
8787	21866	35408	4.41	3.0E-94	AB014579.1	NT	Homo sapiens mRNA for KIAA0679 protein, partial cds
9791	22831	36410	7.29	3.0E-94	AF087942.1	NT	Homo sapiens glycogenin-1L mRNA, complete cds
11362	24423	38079	1.94	3.0E-94	4757821	NT	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
11976	24980	38682	2.11	3.0E-94	U28711.1	NT	Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds
8954	22993	36587	0.67	2.0E-94	AI910393.1	EST_HUMAN	w130h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
8954	22993	36588	0.67	2.0E-94	AI910393.1	EST_HUMAN	w130h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
153	13378	26410	3.07	1.0E-94	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'

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Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3158	16333	28342	2.05	1.0E-94	BE253433.1	EST_HUMAN	601111606F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
3158	16333	28343	2.05	1.0E-94	BE253433.1	EST_HUMAN	601111606F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
4478	17618	30600	1.11	1.0E-94	9506692	NT	Homo sapiens hypothetical protein (FLJ20746), mRNA
6198	16373	32724	0.69	1.0E-94	AE000268.1	NT	Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome
8398	16586	32925	1.91	1.0E-94	AL040518.1	EST_HUMAN	DKFZp434G0314.1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434G0314 5'
6405	18574	32936	0.82	1.0E-94	H08270.1	EST_HUMAN	W8702.1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:45053 5'
6648	19807	33194	0.66	1.0E-94	AV726992.1	EST_HUMAN	AV726992 HTC Homo sapiens cDNA clone HTCBEF05 5'
8304	21388	34908	0.8	1.0E-94	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21G004
8304	21388	34909	0.8	1.0E-94	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21G004
9456	22572	36138	2.17	1.0E-94	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
9890	23029	36620	1.35	1.0E-94	BE780476.1	EST_HUMAN	601488748F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3872069 5'
11321	24384	38028	3.11	1.0E-94	U65590.1	NT	Homo sapiens IL-1 receptor antagonist IL-1Ra (IL-1RN) gene, alternatively spliced forms, complete cds
11597	24950	38334	1.88	1.0E-94	AI272244.1	EST_HUMAN	ap22602x1 Schiller oligodendrogloma Homo sapiens cDNA clone IMAGE:1956122 3' similar to TR:Q62846
12051	25032	38738	1.34	1.0E-94	BE293714.1	EST_HUMAN	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR, .
12639	13378	28410	2.02	1.0E-94	BE293714.1	EST_HUMAN	Homo sapiens KIAA0164 gene product (KIAA0164), mRNA
12668	13378	28410	1.73	1.0E-94	BE293714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
1508	14959	27741	6.05	9.0E-95	AF027302.1	NT	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3224	16398	29409	1.09	9.0E-95	7662027	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3224	16398	29410	1.09	9.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5521	18718	31733	1.46	9.0E-95	X62599.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5521	18718	31734	1.46	9.0E-95	X62599.1	NT	Musculus glyt1 gene (exons 1c and 2)
8448	21527	35054	1.58	9.0E-95	AF274753.1	NT	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
149	13374	26407	2.0	9.0E-95	AF154830.1	NT	Homo sapiens carbamyl phosphate synthetase I mRNA, complete cds
4658	17794	30779	1.68	8.0E-95	AI700998.1	EST_HUMAN	we09604.x1 NCLCGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
4658	17794	30780	1.68	8.0E-95	AI700998.1	EST_HUMAN	TUBULIN ALPHA-1 CHAIN (HUMAN);
7087	20181	33605	0.73	8.0E-95	11418376	NT	we09604.x1 NCLCGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
7390	20468	33934	1.4	8.0E-95	11428529	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
7390	20468	33935	1.4	8.0E-95	11428529	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
8391	21472	34988	2.08	8.0E-95	AF032807.1	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
8565	22707	36273	1.98	8.0E-95	11420944	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
							Homo sapiens KIAA0255 gene product (KIAA0255), mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9565	22707	36274	1.98	8.0E-95	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
10033	23091	38693	2.45	8.0E-95	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH), mRNA
10083	23121		2.92	8.0E-95	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
10440	23475	37079	0.81	8.0E-95	9845523	NT	Homo sapiens early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA
10953	24035	37670	1.59	8.0E-95	AF112152.1	NT	Homo sapiens developmental arteries and neural crest EGF-like protein mRNA, complete cds
11773	24765	38461	1.72	8.0E-95	10864024	NT	Homo sapiens HCF-binding transcription factor Zhangfei (ZF), mRNA
11982	24867	38669	1.32	8.0E-95	7019572	NT	Homo sapiens zincin (ZIN), mRNA
11982	24967	38670	1.32	8.0E-95	7019572	NT	Homo sapiens zincin (ZIN), mRNA
12887	25588		17.21	8.0E-95	AA629058.1	EST_HUMAN	zu84b01.31 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:744849 3' similar to contains L1, L1 repetitive element
266	13504	26537	6.07	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
286	13504	26538	6.07	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
2519	15645	28767	1.37	7.0E-95	M75973.1	NT	Human hepatocyte growth factor gene, exon 8
2519	16645	28768	1.37	7.0E-95	M75973.1	NT	Human hepatocyte growth factor gene, exon 8
4486	17626	30608	15.92	7.0E-95	M95708.1	NT	Homo sapiens Ly-6-like protein (CD59) mRNA, complete cds
4535	17673		1.09	7.0E-95	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9418	22492	36058	0.62	4.0E-95	BE439625.1	EST_HUMAN	HTM1-289F HTMT Homo sapiens cDNA
215	13438	28468	0.82	3.0E-95	AV648361.1	EST_HUMAN	AV648361 GLC Homo sapiens cDNA clone GLOBIF01.3'
5558	18755	31794	1.52	3.0E-95	BF526041.1	EST_HUMAN	602071146F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4214147 5'
5791	25811	32285	0.94	3.0E-95	4503354	NT	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7315	20397	33859	0.73	3.0E-95	AA412321.1	EST_HUMAN	z197d01.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730273 5'
7315	20397	33860	0.73	3.0E-95	AA412321.1	EST_HUMAN	EST370191 MAGe resequences, MAGe Homo sapiens cDNA
7525	20598	34071	2.01	3.0E-95	AW958121.1	EST_HUMAN	EST370191 MAGe resequences, MAGe Homo sapiens cDNA
7525	20598	34072	2.01	3.0E-95	AW958121.1	EST_HUMAN	EST370191 MAGe resequences, MAGe Homo sapiens cDNA
9555	22820	36190	1.62	3.0E-95	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9555	22820	36191	1.62	3.0E-95	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
9948	22987	36581	0.86	3.0E-95	BF213446.1	EST_HUMAN	601845212F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070451 5'
1676	14828	27911	3.52	2.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1676	14828	27912	3.52	2.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1995	15136	28242	73.27	2.0E-95	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA
1998	15139	28246	3.97	2.0E-95	BE393873.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658882 5'
2497	15624	28743	1.5	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2497	15624	28744	1.5	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA

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Probe Seq ID NO:	Exon Seq ID NO:	ORF Seq ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2536	15661	28784	3.62	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2582	15707	28826	1.34	2.0E-95	4758423	NT	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA
2662	15764		0.99	2.0E-95	R16245.1	EST_HUMAN	ye49d08.s1 Soares infant brain 1N18 Homo sapiens cDNA clone IMAGE:53383 3'
3228	16400	29412	2.1	2.0E-95	AF019452.1	NT	Homo sapiens Usurpin-gamma mRNA, complete cds
3655	16618	29829	3.6	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51188), mRNA
3655	16618	29830	3.6	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51188), mRNA
3706	16667	29870	0.81	2.0E-95	AB037807.1	NT	Homo sapiens mRNA for KIAA1386 protein, partial cds
3844	17004	30008	0.62	2.0E-95	A1290284.1	EST_HUMAN	qno1c02.x1 Soares_NhhMPU_S1 Homo sapiens cDNA clone IMAGE:1880546 3' similar to WP:T23G7.4 CE03705
4491	17621	30602	1.38	2.0E-95	7657185	NT	Homo sapiens hypothetical protein (HS322B1A), mRNA
5151	18273	31242	3.5	2.0E-95	7661979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5230	18552	31321	0.99	2.0E-95	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
5597	18792	31840	4.12	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5597	18792	31841	4.12	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5816	19005	32310	1.24	2.0E-95	11226608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5816	19005	32311	1.24	2.0E-95	11226608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5855	19046	32352	0.63	2.0E-95	11525883	NT	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
6270	19444	32703	3.86	2.0E-95	M69724.1	NT	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7
6579	19741	33122	0.9	2.0E-95	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6579	19741	33123	0.9	2.0E-95	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6700	19858	33248	3.25	2.0E-95	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6903	20218	33647	1.47	2.0E-95	11435773	NT	Homo sapiens huntingtin (Huntington disease) (HD), mRNA
8343	22419	35973	1.48	2.0E-95	11421795	NT	Homo sapiens ribophorin II (RPN2), mRNA
10592	23627	37236	0.56	2.0E-95	11434330	NT	Homo sapiens KIAA1066 protein (KIAA1066), mRNA
10962	24043	37678	1.68	2.0E-95	4757853	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRIA) mRNA
11138	24210	37836	1.35	2.0E-95	7681993	NT	Homo sapiens Siz2-related serine/threonine kinase (KIAA0204), mRNA
12002	24987	38691	1.69	2.0E-95	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12002	24987	38692	1.69	2.0E-95	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12103	25093		1.57	2.0E-95	AF161420.1	NT	Homo sapiens HSPC302 mRNA, partial cds
12608	25407	32047	2.31	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12721	25480		1.3	2.0E-95	11417860	NT	Homo sapiens hypothetical protein (HS02281A), mRNA
13067	25598	31966	7.4	2.0E-95	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
5732	18925	32219	8.05	1.0E-95	AA284851.1	EST_HUMAN	TR-G1067084 G1067084 F55H2.6; z423H04.1 Soares ovary tumor NbtOT Homo sapiens cDNA clone IMAGE:714007 5' similar to
5732	18925	32220	8.06	1.0E-95	AA284851.1	EST_HUMAN	TR-G1067084 G1067084 F55H2.6; z423H04.1 Soares ovary tumor NbtOT Homo sapiens cDNA clone IMAGE:714007 5' similar to
7663	20748	34229	4.11	1.0E-95	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
7663	20748	34230	4.11	1.0E-95	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
9663	20825	36197	0.45	1.0E-95	R17806.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA clone IMAGE:31763 5'
9663	21469	34996	1.56	9.0E-96	BE97259.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA clone IMAGE:3922423 5'
455	16012	26687	0.88	8.0E-96	BE907607.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA clone IMAGE:3999761 5'
455	16012	26688	0.88	8.0E-96	BE907607.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA clone IMAGE:3999761 5'
5828	18322		2.8	8.0E-96	AW836047.1	EST_HUMAN	PM0-LT0019-090300-002-d09 L70019 Homo sapiens cDNA
4018	17175	30183	1.25	7.0E-96	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
2334	15465	28600	2.48	6.0E-96	BE171984.1	EST_HUMAN	MR0-HT0559-250200-002-d07 HT0559 Homo sapiens cDNA
3394	16594	29579	0.71	6.0E-96	AL163201.2	NT	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3'end
3571	16736	29751	10.25	6.0E-96	M26873.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11839	24828	38517	2.41	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11839	24828	38518	2.41	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11891	24879	38576	1.84	6.0E-96	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
12064	25045	38753	1.32	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12064	25045	38754	1.32	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
330	13544	26574	3.55	5.0E-96	AB032998.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
865	14041	27104	3.4	5.0E-96	AB032998.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
865	14041	27105	3.4	5.0E-96	AB032998.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
2884	16804		1.72	5.0E-96	11418767	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
3092	18288	29284	0.71	5.0E-96	6912735	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
5024	18153		1.89	5.0E-96	X60812.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
5296	18414	31381	0.79	5.0E-96	AF264750.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
6788	18943	33341	1.1	5.0E-96	AF149773.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
6851	20004	33413	0.58	5.0E-96	AJ277557.1	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
6921	20236	33669	3.68	5.0E-96	11424399	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
6921	20236	33670	3.68	5.0E-96	11424399	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7163	20298	33740	0.91	5.0E-96	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7684	20749	34231	0.76	5.0E-96	AB024334.1	NT	Homo sapiens mRNA for 14-3-3gamma, complete cds
8297	21379	34900	1.87	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
8297	21379	34901	1.87	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
12083	25063	38798	1.33	5.0E-96	7661973	NT	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA
4308	17451		15.93	3.0E-96	H88688.1	EST_HUMAN	Y87H12.1 Soares fetal liver spleen TNF-LS Homo sapiens cDNA clone IMAGE212327 5'
428	13623		5.76	2.0E-96	4503098	NT	Homo sapiens chondroin sulfite proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
766	13947	26994	1.1	2.0E-96	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
1834	14881	28078	1.03	2.0E-96	7708205	NT	Homo sapiens CGI-201 protein (LOC61340), mRNA
4880	18011	30995	1.56	2.0E-96	BE148074.1	EST_HUMAN	RC3-H12020-040500-10-g02 HT0230 Homo sapiens cDNA
7620	20680	34165	0.59	2.0E-96	BF368731.1	EST_HUMAN	QV4-GN0120-250900-427-512 GN0120 Homo sapiens cDNA
7620	20680	34166	0.59	2.0E-96	BF368731.1	EST_HUMAN	QV4-GN0120-250900-427-512 GN0120 Homo sapiens cDNA
6181	22259		4.9	2.0E-96	AV689481.1	EST_HUMAN	AV689481 GKC Homo sapiens cDNA clone GKC07MD07 5'
12288	25214		2.64	2.0E-96	AW246440.1	EST_HUMAN	2819351.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE2819351 5'
638	13823	26846	0.86	1.0E-96	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
638	13823	26846	0.86	1.0E-96	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
688	13872	26905	3.08	1.0E-96	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1822	14971	28063	9.97	1.0E-96	AW955054.1	EST_HUMAN	EST1367124 MAGC resequences, MAGC Homo sapiens cDNA
1822	14971	28064	9.97	1.0E-96	AW955054.1	EST_HUMAN	EST1367124 MAGC resequences, MAGC Homo sapiens cDNA
5331	18444		1.59	1.0E-96	5453913	NT	Homo sapiens phospholipid transfer protein (PLTP) mRNA
7105	18532	31487	1.18	1.0E-96	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7194	20059	33470	0.71	1.0E-96	6912453	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8407	21488	35017	0.9	1.0E-96	7681803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8407	21488	35018	0.9	1.0E-96	7681803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8913	21992	35531	21.44	1.0E-96	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
9051	22130	35674	2.22	1.0E-96	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10382	23397	37007	0.68	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
10382	23397	37008	0.68	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
12274	13823	26846	3.29	1.0E-96	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
12274	13823	26846	3.29	1.0E-96	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
3405	16575	28580	0.72	6.0E-97	BF245240.1	EST_HUMAN	801863712F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE4081202 5'
7730	20762		3.4	6.0E-97	BE141849.1	EST_HUMAN	IL5-HT0117-011098-004-D07 HT0117 Homo sapiens cDNA

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9134	22213	35757	0.75	6.0E-97	BE898012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3926133 5'
9134	22213	35758	0.75	6.0E-97	BE898012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3926133 5'
10821	23854	37476	0.65	6.0E-97	AA320332.1	EST_HUMAN	EST22872 Adipose tissue, white II Homo sapiens cDNA 5' end
10821	23854	37478	0.65	6.0E-97	AA320332.1	EST_HUMAN	EST22872 Adipose tissue, white II Homo sapiens cDNA 5' end
11692	24690	38381	2.42	6.0E-97	X15804.1	NT	Human mRNA for alpha-actinin
8204	21288	34809	1.73	5.0E-97	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434N0323 5'
8336	21417	34943	11.21	5.0E-97	AA418028.1	EST_HUMAN	z07012.s1 Scores_NihHMPu_S1 Homo sapiens cDNA clone IMAGE:767768 3' similar to TR:G1304126
9877	22917	36502	3.12	5.0E-97	BF154912.1	EST_HUMAN	G1304125 PMS4 MRNA :
11840	24829	38518	1.68	5.0E-97	BE148597.1	EST_HUMAN	RCO-BT0812-250900-032-409 BT0812 Homo sapiens cDNA
11840	24829	38520	1.68	5.0E-97	BE148597.1	EST_HUMAN	MRO-HT0241-150600-010-b02 HT0241 Homo sapiens cDNA
982	14135	27196	2.13	4.0E-97	BE004436.1	EST_HUMAN	MRO-HT0241-150600-010-b02 HT0241 Homo sapiens cDNA
1959	15102	28202	1.41	4.0E-97	5453572	NT	CMO-BN0108-170300-293-406 BN0108 Homo sapiens cDNA
5833	18877	32166	0.92	4.0E-97	4557326	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
6862	20190	33615	6.47	4.0E-97	Y11339.2	NT	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA
6862	20190	33616	6.47	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase 1, long form
7161	20294	33737	1.06	4.0E-97	7710125	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase 1, long form
7214	20079	33492	0.92	4.0E-97	11422155	NT	Homo sapiens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA
8329	21411	34937	1.06	4.0E-97	4557708	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8553	21634	35171	1.43	4.0E-97	11421793	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2) mRNA
8779	21858	35401	0.51	4.0E-97	11431060	NT	Homo sapiens v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
8820	21896	35438	0.82	4.0E-97	11423233	NT	Homo sapiens N-myc (end STAT) interactor (NMI), mRNA
9449	22585	36128	1.06	4.0E-97	AB011166.1	NT	Homo sapiens cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA
10652	23696	37296	0.55	4.0E-97	11431060	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
11435	24496	38162	1.99	4.0E-97	11863122	NT	Homo sapiens N-myc (end STAT) interactor (NMI), mRNA
11435	24496	38163	1.99	4.0E-97	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11719	23905	37528	4.51	4.0E-97	AB042557.1	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
12472	25325		5.26	4.0E-97	11416318	NT	Homo sapiens mRNA, similar to rat myomegalin, complete cds
253	13473	26504	1.58	3.0E-97	AB032998.1	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
897	14073	27138	7.16	3.0E-97	4502166	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
							Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
897	14073	27139	7.16	3.0E-97	4502169	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1473	16039	27712	1.64	3.0E-97	4768813	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
2508	15968	28755	2.4	3.0E-97	U36255.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 7
3333	16506	29523	0.96	3.0E-97	5174478	NT	Homo sapiens pericentriin (PCNT) mRNA
4902	18032	31021	22.23	1.0E-97	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
5557	19718	33095	2.72	1.0E-97	BE566486.1	EST_HUMAN	601339520F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3681821 5'
7039	20092	33509	0.69	1.0E-97	5453881	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9666	23005	36600	1.02	1.0E-97	R10887.1	EST_HUMAN	y38c08.s1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:129134 3'
10945	24027	37663	2.84	1.0E-97	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
10945	24027	37684	2.84	1.0E-97	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
11589	24842	38324	1.38	1.0E-97	AA563761.1	EST_HUMAN	nk29g02.s1 NCI_CGAP_Cot11 Homo sapiens cDNA clone IMAGE:1014862 3'
11766	23942	37568	8.3	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
11766	23942	37569	8.3	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
924	14099	27163	2.34	9.0E-98	BE090973.1	EST_HUMAN	PM4-BT0724-010400-008-at12 BT0724 Homo sapiens cDNA
1305	14461	27528	1.32	9.0E-98	8393092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
6432	19600		0.79	9.0E-98	AJ250713.1	NT	Homo sapiens CLDN12 gene for claudin-12
8020	21072	34583	4.13	9.0E-98	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
8020	21072	34584	4.13	9.0E-98	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
8109	21191	34711	5.62	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
8109	21191	34712	5.62	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
9316	22392	35943	1.78	9.0E-98	X06980.1	NT	Human mRNA for amyloid A4(751) protein
9425	22499	36064	1.12	9.0E-98	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9492	22549	36112	1.9	9.0E-98	AB037786.1	NT	Homo sapiens mRNA for KIAA1366 protein, partial cds
9840	22805		0.81	9.0E-98	AF057726.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9667	22709	36278	1.28	9.0E-98	4607070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
9587	22709	36277	1.28	9.0E-98	4607070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10487	23502	37115	0.67	9.0E-98	AF141325.2	NT	Homo sapiens inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds
10575	23610	37215	0.5	9.0E-98	11431544	NT	Homo sapiens protease-activated receptor 3 (PAR3), mRNA
11253	24322	37662	2.62	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11253	24322	37663	2.62	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
12487	14099	27163	4.97	9.0E-98	BE090973.1	EST_HUMAN	PM4-BT0724-010400-008-at12 BT0724 Homo sapiens cDNA

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Table 4
Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1403	14557	27631	0.93	8.0E-98	AB033768.1	NT	Homo sapiens hPAD-colony10 mRNA for peptidylarginine deiminase type I, complete cds
1591	14743	27825	1.1	8.0E-98	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1591	14743	27826	1.1	8.0E-98	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1765	14914	28009	2.79	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
1765	14914	28010	2.79	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3896	17055	30055	6.45	8.0E-98	J04469.1	NT	Human mitochondrial creatine kinase (CKMT) gene, complete cds
6207	19392	32732	0.96	5.0E-98	BE895373.1	EST_HUMAN	601507503F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909097 5'
2247	15380	28508	1.35	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
2673	16793	28910	2.1	3.0E-98	AB014807.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
2807	15921		5.04	3.0E-98	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
7085	20179	33602	1.99	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
7085	20179	33603	1.99	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
8951	22030	35571	4.07	3.0E-98	H46988.1	EST_HUMAN	yo17g09.r1 Scores adult brain N255HE55Y Homo sapiens cDNA clone IMAGE:178240 5'
8497	22553	36116	0.54	3.0E-98	8922096	NT	Homo sapiens uncharacterized bone marrow protein BM039 (BM039), mRNA
10087	23125	36726	1.82	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
10087	23125	36727	1.82	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
10691	23724	37330	0.89	3.0E-98	BE900454.1	EST_HUMAN	601673669F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956617 5'
11195	24264	37899	2.56	3.0E-98	U59309.1	NT	Human fumarate precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
11819	24808	38504	2.22	3.0E-98	AI159975.1	EST_HUMAN	qb80h02.x1 Scores_fetal_NBHHT8W Homo sapiens cDNA clone IMAGE:1706451 3'
13138	25739		3.01	3.0E-98	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
754	13935	26980	0.67	2.0E-98	BE261694.1	EST_HUMAN	601149486F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502245 5'
2141	15277	28399	4.06	2.0E-98	BE294281.1	EST_HUMAN	601172658F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5'
2311	15443	28578	2.21	2.0E-98	AL163202.2	NT	Homo sapiens chromosome 21 segment HS27C002
4411	17553	30538	0.82	2.0E-98	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4459	17569	30577	4.23	2.0E-98	4758331	NT	Homo sapiens fatty-acid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA
4948	18078	31052	1.39	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
4948	18078	31053	1.39	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
5492	18691	31708	4.76	2.0E-98	7709512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6793	19948	33347	1.7	2.0E-98	4506798	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7801	20857	34348	1.25	2.0E-98	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
7801	20857	34349	1.25	2.0E-98	11431271	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
8807	21886	35426	4.44	2.0E-98	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8807	21886	35427	4.44	2.0E-98	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8889	21068	35503	0.8	2.0E-98	L76658.1	NT	Homo sapiens NKAT4b mRNA, complete cds
8889	21068	35504	0.8	2.0E-98	L76658.1	NT	Homo sapiens NKAT4b mRNA, complete cds
9737	22802	38378	1.56	2.0E-98	X12664.1	NT	H. sapiens arginase gene exon 3 (EC 3.5.3.1)
10824	23688		1.65	2.0E-98	7705868	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
12136	25116		1.61	2.0E-98	AB046813.1	NT	Homo sapiens mRNA for KIAA1593 protein, partial cds
12492	26340	32062	2.23	2.0E-98	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
418	13513	26853	27.52	1.0E-98	AI892007.1	EST_HUMAN	hw36b04.x1 NCL_CGAP_U1 Homo sapiens cDNA clone IMAGE:2261743 3' similar to SW:RL2B_HUMAN
487	13652	26868	3.27	1.0E-98	AW968611.1	EST_HUMAN	P28316 80S RIBOSOMAL PROTEIN L23A.
1840	14986	28088	26.16	1.0E-98	NA49818.1	EST_HUMAN	PMO-BN0065-100300-001-c08 BN0065 Homo sapiens cDNA y23f05.t1 Soares fetal liver spleen 1NFS Homo sapiens cDNA clone IMAGE:243585 5' similar to PIR:S54204 S54204 ribosomal protein L29 - human ;
5432	18632	31610	3.3	1.0E-98	AA195854.1	EST_HUMAN	Z98C09.t1 Striatogene muscle 937209 Homo sapiens cDNA clone IMAGE:6282-0 5' similar to TR:G806662
5687	18861	32172	0.97	1.0E-98	BE390627.1	EST_HUMAN	G80662 NEBULIN.
5687	18861	32173	0.97	1.0E-98	BE390627.1	EST_HUMAN	60128488F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606692 5'
9199	22277	35815	0.59	1.0E-98	AF141349.1	NT	60128488F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606692 5'
9199	22277	35816	0.59	1.0E-98	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
5939	19125	32438	1.05	9.0E-99	AI805004.1	EST_HUMAN	Homo sapiens beta-tubulin mRNA, complete cds
5939	19125	32439	1.05	9.0E-99	AI805004.1	EST_HUMAN	QV-BT073-191288-012 BT073 Homo sapiens cDNA
6165	19341	32688	4.01	9.0E-99	AW968635.1	EST_HUMAN	QV-BT073-191288-012 BT073 Homo sapiens cDNA
11384	24445	38105	1.85	9.0E-99	AI479829.1	EST_HUMAN	EST380711 MAGIE resequences, MAGJ Homo sapiens cDNA
11384	24445	38106	1.85	9.0E-99	AI479829.1	EST_HUMAN	Im69h07.x1 NCL_CGAP_Bn25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
11700	24697	38389	1.72	9.0E-99	AA134604.1	EST_HUMAN	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
8924	22003	35542	1.19	8.0E-99	8633487	NT	Im69h07.x1 NCL_CGAP_Bn25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN
9558	19142	32468	9.25	7.0E-99	AF035608.1	NT	P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
11909	24896	38599	1.91	7.0E-99	AF001866.1	NT	z99d02.t1 Striatogene lung carcinoma 837218 Homo sapiens cDNA clone IMAGE:365443 5' similar to
484	13678	28713	0.72	6.0E-99	U10991.1	NT	TR:G862964 G862964 GPI-ANCHORED PROTEIN P137. ;
2106	15331	28456	6.2	6.0E-99	11430555	NT	Human endogenous retrovirus, complete genome
2106	15331	28457	6.2	6.0E-99	11430555	NT	Homo sapiens occlilin (ILN) gene, exon 5
3995	17152	30160	2.8	6.0E-99	AW976384.1	EST_HUMAN	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon
4870	18003	30886	1.42	6.0E-99	4502660	NT	Human G2 protein mRNA, partial cds
							Homo sapiens cysteine-rich repeat-containing protein S52 precursor, (LOC51232), mRNA
							Homo sapiens cysteine-rich repeat-containing protein S52 precursor, (LOC51232), mRNA
							EST388473 MAGIE resequences, MAGN Homo sapiens cDNA
							Homo sapiens CD34 antigen (CD34) mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6732	19889	33280	0.94	6.0E-99	7706136	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
6816	19969	33378	0.74	6.0E-99	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
6816	19969	33377	0.74	6.0E-99	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8298	21378	34899	1.85	6.0E-99	X99101.1	NT	H sapiens mRNA for estrogen receptor
8314	21396	34921	0.59	6.0E-99	6601583	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8964	22043	35586	2.67	6.0E-99	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
9064	22143	35688	7.6	6.0E-99	AF080255.1	NT	Homo sapiens iodester protein mRNA, complete cds
9064	22143	35689	7.6	6.0E-99	AF080255.1	NT	Homo sapiens iodester protein mRNA, complete cds
9123	22202	35744	0.59	6.0E-99	11431994	NT	Homo sapiens inositol 1,4,5-trisphosphate receptor, type 1 (ITPR1), mRNA
9123	22202	35745	0.59	6.0E-99	11431994	NT	Homo sapiens inositol 1,4,5-trisphosphate receptor, type 1 (ITPR1), mRNA
10958	24039	37674	3.15	6.0E-99	11826293	NT	Homo sapiens BH3 interacting domain death agonist (BID), mRNA
11742	23928	37553	2.02	6.0E-99	9910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
11742	23928	37554	2.02	6.0E-99	9910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
2022	15193	28268	1	5.0E-99	Y11365.1	NT	H sapiens IMPA gene, exon 8
4686	17821	30809	1.81	5.0E-99	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
12502	25346		2.49	5.0E-99	BE890177.1	EST_HUMAN	601613157F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914391 5'
8516	21597		4.95	3.0E-99	M95566.1	NT	Human E2AHLA fusion protein (E2AHLF) mRNA, complete cds
1268	14426		7.26	2.0E-99	AW274792.1	EST_HUMAN	XP0906.X1 NCL CGAP_JN9 Homo sapiens cDNA clone IMAGE:2739874 3' similar to gb:M31212 MYOSIN
3331	16504	29522	1.4	2.0E-99	M30938.1	NT	LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN); Human Ku (p70/p80) subunit mRNA, complete cds
4665	17800	30787	1.82	2.0E-99	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7851	20906	34410	0.76	2.0E-99	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8904	21983	35523	10.79	2.0E-99	W23507.1	EST_HUMAN	zb46d06.1 Soares_fetal_Jung_NbHL19W Homo sapiens cDNA clone IMAGE:306635 5' similar to
9353	22428	35986	0.75	2.0E-99	R78254.1	EST_HUMAN	gb:M18182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
11367	24428	38085	3.16	2.0E-99	AF27457.2	NT	y81509.1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145826 5'
12081	25081	38767	1.64	2.0E-99	10863960	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
325	13539	26571	1.49	1.0E-99	AF114487.1	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
390	13596	26632	1.75	1.0E-99	11528150	NT	Homo sapiens interaeth long isoform (ITSN) mRNA, complete cds
1452	14605	27684	3.61	1.0E-99	M30338.1	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
1587	14739	27819	1.16	1.0E-99	AF192523.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
1587	14739	27820	1.16	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1980	15123	28224	1.21	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1980	15123	28225	1.21	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
3164	16328	28339	0.93	1.0E-99	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds
4499	17639	30821	2.64	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
4499	17639	30822	2.64	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
6943	20256	33694	1.25	1.0E-99	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
6943	20266	33696	1.25	1.0E-99	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
7289	25842	33827	0.81	1.0E-99	X98022.1	NT	H. sapiens E6-AP gene exon 2
9400	22474		0.75	1.0E-99	11419721	NT	Homo sapiens ALEX1 protein (LOC51309), mRNA
9720	22785	36350	1.7	1.0E-99	AW340174.1	EST_HUMAN	hd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:002711
11403	24464	38128	2.58	1.0E-99	7427514	NT	002711 PRO-POL-DUTPASE POLYPROTEIN
11403	24464	38129	2.58	1.0E-99	7427514	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA
11462	24521	38191	1.68	1.0E-99	5901979	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA
11659	24738	38429	2.83	1.0E-99	AB023222.1	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
11896	24981	38687	2.45	1.0E-99	11417191	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
12257	25193		4.52	1.0E-99	AF240786.1	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
1	13241	26241	1.7	1.0E-100	AL163247.2	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2	13241	26241	2.91	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
70	13307	26329	1.62	1.0E-100	11418230	NT	Homo sapiens chromosome 21 segment HS21C047
70	13307	26330	1.62	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
99	13324	26353	0.82	1.0E-100	AW276237.1	EST_HUMAN	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
173	13397	26425	0.89	1.0E-100	AL163208.2	NT	xk78b11.x1 NCL_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2824605 3'
327	13541	26573	1.84	1.0E-100	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C008
353	13564	26592	1.87	1.0E-100	T05087.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C049
450	13846		2.24	1.0E-100	AF003528.1	NT	EST02975 Fetal brain, Striatum (catd936206) Homo sapiens cDNA clone HFBOR32
502	13997		5.88	1.0E-100	X89631.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
522	13716	26742	1.21	1.0E-100	BE180909.1	EST_HUMAN	G. gorilla DNA for ZNF80 gene homolog
1044	14210	27266	4.57	1.0E-100	7661685	NT	RC3-HT0625-040500-022-506 HT0625 Homo sapiens cDNA
1044	14210	27267	4.57	1.0E-100	7681685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1577	14730		1.3	1.0E-100	AW207555.1	EST_HUMAN	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1581	14733	27814	1.66	1.0E-100	AI200857.1	EST_HUMAN	UJH-B11-afk-o-07-o-Ju.s1 NCL_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164 3'
							q62069.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA
							P81061 CYSTATIN1

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2315	15447		1.14	1.0E-100	D83349.1	NT	Rat mRNA for short type PB-cadherin, complete cds
2507	15634	28754	1.41	1.0E-100	X62468.1	NT	H. sapiens mRNA for IPN-gamma (pKC-0)
2771	15886	28696	2.5	1.0E-100	11418976	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
3083	16259		6.55	1.0E-100	D11078.1	NT	Homo sapiens RG2 gene, retrovirus-like element
4326	17489	30456	1.87	1.0E-100	AF057354.1	NT	Homo sapiens myotubularin-related protein 1a mRNA, partial cds
4351	17494	30474	2.28	1.0E-100	4503702	NT	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA
5202	18323	31291	3.01	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5202	18323	31292	3.01	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5404	18606	31578	1.74	1.0E-100	BF244218.1	EST_HUMAN	601883164F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:4080999 5'
5625	18819	31893	0.76	1.0E-100	AW075983.1	EST_HUMAN	xa8201.x1 NCJ CGAP_CVL1 Homo sapiens cDNA clone IMAGE:2573305 3' similar to gp.X12433
5818	19008	32314	1.45	1.0E-100	AU18182.1	EST_HUMAN	PROTEIN PHPS1-2 (HUMAN);
5864	19054	32361	1.78	1.0E-100	AF135116.1	NT	AU18182 HEMBA1 Homo sapiens cDNA clone HEMBA1003048 5'
5960	19146	32461	0.85	1.0E-100	X14690.1	NT	Homo sapiens NF-E2-related factor 3 gene, complete cds
6292	19465	32817	0.9	1.0E-100	4557568	NT	Homo mRNA for plasma inter-alpha-trypsin inhibitor heavy chain H(3)
6292	19465	32818	0.9	1.0E-100	4557568	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6626	19786	33174	5.62	1.0E-100	AU140214.1	EST_HUMAN	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6824	19977	33384	1.36	1.0E-100	R10887.1	EST_HUMAN	AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5'
6908	20223	33653	1.77	1.0E-100	7382479	NT	y38c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:129134 3'
6982	20210	33636	1.02	1.0E-100	AA496841.1	EST_HUMAN	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
6982	20210	33639	1.02	1.0E-100	AA496841.1	EST_HUMAN	ae33b06.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR:G487418
7026	20162	33583	1.18	1.0E-100	BF376478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN. ;
7026	20162	33584	1.18	1.0E-100	BF376478.1	EST_HUMAN	ae33b08.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR:G487418
7033	20169	33591	6.2	1.0E-100	X04671.1	NT	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN. ;
8729	21809	35345	3.33	1.0E-100	BF103853.1	EST_HUMAN	MR1-TN0046-060900-004-005 TN0046 Homo sapiens cDNA
8766	21845		5.59	1.0E-100	AL163203.2	NT	MR1-TN0046-060900-004-005 TN0046 Homo sapiens cDNA
9216	22294	35837	0.47	1.0E-100	AU116951.1	EST_HUMAN	Human mRNA for kidney epidermal growth factor (EGF) precursor
9216	22294	35838	0.47	1.0E-100	AU116951.1	EST_HUMAN	601647357F1 NIH_MGC_61 Homo sapiens cDNA clone IMAGE:3981310 5'
9433	22507	36073	3.88	1.0E-100	AB040918.1	NT	Homo sapiens chromosome 21 segment HS21C003
9510	22776		1.65	1.0E-100	A1972388.1	EST_HUMAN	AU118951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9633	21076	34588	2.28	1.0E-100	AW998611.1	EST_HUMAN	AU118951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
							Homo sapiens mRNA for KIAA1485 protein, partial cds
							w37g09.x1 NCJ CGAP_P128 Homo sapiens cDNA clone IMAGE:2489920 3' similar to contains element
							MER22 repetitive element ;
							PMO-BN0065-100300-001-c06 BN0065 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9887	22736		0.84	1.0E-100	AU127720.1	EST_HUMAN	AU127720 NT2RP2 Homo sapiens cDNA clone NT2RP2001818 5'
9782	22822	36400	2.17	1.0E-100	AB046846.1	NT	Homo sapiens mRNA for KIAA1626 protein, partial cds
9782	22822	36401	2.17	1.0E-100	AB046846.1	NT	Homo sapiens mRNA for KIAA1626 protein, partial cds
10048	23086	36687	1.81	1.0E-100	AW630487.1	EST_HUMAN	h83c11.Y1 NCL CGAP GU1 Homo sapiens cDNA clone IMAGE:2866396 5'
10048	23086	36688	1.81	1.0E-100	AW630487.1	EST_HUMAN	h83c11.Y1 NCL CGAP GU1 Homo sapiens cDNA clone IMAGE:2866396 5'
10888	23721	37327	0.64	1.0E-100	BF347518.1	EST_HUMAN	802020554F1 NCL CGAP Bmg7 Homo sapiens cDNA clone IMAGE:4166166 5'
10782	23815		1.35	1.0E-100	Y10391.1	NT	Human endogenous retrovirus HERV-K, pol gene
10906	24076	37708	6.64	1.0E-100	BF327282.1	EST_HUMAN	MFO-BN0070-270300-008-h11 BN0070 Homo sapiens cDNA
11564	24618	38300	1.56	1.0E-100	X94633.1	NT	H. sapiens CD97 gene exon 4
11564	24618	38301	1.55	1.0E-100	X94633.1	NT	H. sapiens CD97 gene exon 4
11635	24715	38406	3.91	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11635	24715	38406	3.91	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11665	13241	26241	3.07	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
11977	24962		2.21	1.0E-100	AF266286.1	NT	Homo sapiens golgin-like protein (GLP) gene, complete cds
12128	25108	38812	1.93	1.0E-100	AJ131034.1	NT	Homo sapiens class gene, exon 12
12177	25137	38832	7.59	1.0E-100	AF240788.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12312	26037		1.78	1.0E-100	BF446549.1	EST_HUMAN	7q88h03.x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to TR-Q21897 Q21897
12463	26341	32063	4.97	1.0E-100	11645732	NT	COSMID R151.[2] TR-Q9UA08:
12754	25500	32033	1.31	1.0E-100	11418123	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
13195	25778	31935	6.91	1.0E-100	11417874	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
79	13315	26342	0.92	1.0E-101	7110714	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
79	13315	26343	0.92	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
704	13887	26919	1.4	1.0E-101	AB007915.2	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
722	13904	26945	6.12	1.0E-101	7110734	NT	Homo sapiens mRNA for KIAA0446 protein, partial cds
722	13904	26948	5.12	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
792	13971	27023	1.37	1.0E-101	7667454	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
876	14052	27117	1.35	1.0E-101	4503914	NT	Homo sapiens pectadillo (zebrin) homolog 1, containing BRCT domain (PES1), mRNA
948	14121	27182	0.86	1.0E-101	Z20656.1	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase (GART) mRNA
1009	14180	27243	6.07	1.0E-101	BF681216.1	EST_HUMAN	Homo sapiens of cardiac alpha-myosin heavy chain gene
1077	14243	27299	1.39	1.0E-101	AU221878.1	EST_HUMAN	802156474F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4287291 5'
1614	14767	27849	1.44	1.0E-101	5821480	NT	g099e09.x1 Scores_NFL_I_GBC_S1 Homo sapiens cDNA clone IMAGE:1843338 3'
							Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA

Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1614	14787	27850	1.44	1.0E-101	5521460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1785	14934	28028	1.57	1.0E-101	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1785	14934	28029	1.57	1.0E-101	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1999	15140	28247	2.07	1.0E-101	4502996	NT	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1), mRNA
2116	15254	28373	2.78	1.0E-101	BE843070.1	EST_HUMAN	RC3-ST0281-100600-010-H09 ST0281 Homo sapiens cDNA
2425	16062	28580	1.2	1.0E-101	5729892	NT	Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
2680	15800	28917	4.62	1.0E-101	X72993.1	NT	H. sapiens EWS gene, exon 5
2802	15916	29025	9.27	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
2802	15916	29026	9.27	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3020	16196		20.16	1.0E-101	AJ252312.1	NT	Homo sapiens genomic downstream Rhesus box
3273	16447	29407	2.97	1.0E-101	4886270	NT	Homo sapiens gemme-glutamytransferase 1 (GGT1), mRNA
3313	16486		2.3	1.0E-101	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3862086 5'
3458	16835	29654	1.82	1.0E-101	AW965566.1	EST_HUMAN	EST377629 IMAGE resequences, MAGI Homo sapiens cDNA
3487	15916	29025	3.69	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3487	15916	29026	3.59	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3981	17138	30142	3.81	1.0E-101	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
5147	18269	31240	1.14	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5147	18269	31240	1.14	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5248	18369	31336	0.6	1.0E-101	BE612554.1	EST_HUMAN	601452067F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855761 5'
5248	18369	31337	0.6	1.0E-101	BE612554.1	EST_HUMAN	601452067F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855761 5'
5433	18633	31611	1.94	1.0E-101	AW965139.1	EST_HUMAN	EST377212 IMAGE resequences, MAGI Homo sapiens cDNA
6126	19305	32645	4.07	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6126	19305	32646	4.07	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6834	19987	33396	0.96	1.0E-101	11430734	NT	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7423	20500		1.26	1.0E-101	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7473	20548	34019	4.22	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7473	20548	34020	4.22	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7645	20714	34182	7.65	1.0E-101	AW008475.1	EST_HUMAN	w55f12.x1 NCL CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2833487 3'
7749	20809		1.99	1.0E-101	BE257384.1	EST_HUMAN	601109217F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3349801 5'
7900	20952	34459	6.54	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA
8097	21179	34698	0.74	1.0E-101	BE275821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345863 5'
8097	21179	34697	0.74	1.0E-101	BE275821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5'
8245	21827	34843	1.6	1.0E-101	BF029174.1	EST_HUMAN	601784696F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996837 5'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8517	21698	35132	0.71	1.0E-101	AW630070.1	EST_HUMAN	h74g10.y1 NCI CGAP_GU1 Homo sapiens cDNA IMAGE:2988578 5' similar to gb:J03143 INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
8517	21598	35103	0.71	1.0E-101	AW630070.1	EST_HUMAN	h74g10.y1 NCI CGAP_GU1 Homo sapiens cDNA IMAGE:2988578 5' similar to gb:J03143 INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9212	22290	35832	1.1	1.0E-101	AA036800.1	EST_HUMAN	Zk2908.r1 Soares_pregnant_uterus_NBHFU Homo sapiens cDNA IMAGE:471898 5' similar to p1R:S64640 S54640 YD9335.03c protein - yeast:
9531	22598	36167	0.99	1.0E-101	AB037772.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9531	22598	36168	0.99	1.0E-101	AB037772.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
9661	21103	34619	17.36	1.0E-101	X60089.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase
9661	21103	34620	17.36	1.0E-101	X60089.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase
9876	22638	36209	19.41	1.0E-101	9845492	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
9959	22998	36593	3.36	1.0E-101	BE19687.1	EST_HUMAN	601472808T1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3875953 3'
9959	22998	36594	3.36	1.0E-101	BE19687.1	EST_HUMAN	601472808T1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3875953 3'
10098	23136	36737	0.68	1.0E-101	10883960	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
10820	23654	37284	1.94	1.0E-101	11428127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10886	23690	37289	4.37	1.0E-101	AI570293.1	EST_HUMAN	h77d11.x1 NCI CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2184309 3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
10886	23690	37300	4.37	1.0E-101	AI570293.1	EST_HUMAN	h77d11.x1 NCI CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2184309 3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);
10771	23804	37426	0.83	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
10771	23804	37427	0.83	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
11371	24432	38089	1.31	1.0E-101	AB020628.1	NT	Homo sapiens mRNA for KIAA0819 protein, partial cds
12059	25040	38748	1.85	1.0E-101	AI908188.1	EST_HUMAN	RC-BT163-290489-085 BT163 Homo sapiens cDNA
12059	25040	38749	1.85	1.0E-101	AI908188.1	EST_HUMAN	RC-BT163-290489-085 BT163 Homo sapiens cDNA
12738	26489	38749	2.24	1.0E-101	BE163587.1	EST_HUMAN	QV3-HT0490-230200-101-603 HT0490 Homo sapiens cDNA
12793	25528	38749	12.78	1.0E-101	AW939051.1	EST_HUMAN	QV1-DT0068-240200-085-e01 DT0068 Homo sapiens cDNA
40	13278	26234	0.81	1.0E-102	AF012672.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
351	13562	26589	4.57	1.0E-102	AL163303.2	NT	Homo sapiens citromosome 21 segment HS21C103
635	13820	26844	0.61	1.0E-102	BE252470.1	EST_HUMAN	601108292F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3344328 5'
796	13975	27028	1.06	1.0E-102	4657534	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
1141	14306	27962	1.9	1.0E-102	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
1297	14453	27918	2.05	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1297	14453	27918	2.05	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1490	14903	27981	355.9	1.0E-102	BE408447.1	EST_HUMAN	60128982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629901 5'

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2383	15514	28642	1.91	1.0E-102	AH24689.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539854 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95 ;
2383	15514	28643	1.91	1.0E-102	AH24689.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539854 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95 ;
3090	16286		0.74	1.0E-102	Y13932.1	NT	Homo sapiens PRKY exon 7
3133	16309	29322	1.47	1.0E-102	7681979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
3203	16378	29387	3.73	1.0E-102	AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
3203	16378	29388	3.73	1.0E-102	AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
4347	17490	30472	1.74	1.0E-102	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
4533	17571	30655	2.67	1.0E-102	BE251310.1	EST_HUMAN	601107843F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3343882 5'
6224	18348	31316	1.28	1.0E-102	R68488.1	EST_HUMAN	y82c04.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:140934 5'
5487	18586	31704	1.8	1.0E-102	AF067133.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5867	19057		6.87	1.0E-102	AB034951.1	NT	Homo sapiens HSC54 mRNA for heat shock cognate protein 54, complete cds
5905	19094	32408	3.25	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5905	19094	32409	3.25	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5912	19100	32414	0.81	1.0E-102	11433045	NT	Homo sapiens hsd domain and RLD 2 (HERC2), mRNA
6422	19581	32956	2.81	1.0E-102	AH58925.1	EST_HUMAN	at82f09.x1 Barslead cdon HPLRB7 Homo sapiens cDNA clone IMAGE:2161785 3' similar to TR:Q13137
7227	20090	33507	0.7	1.0E-102	AW451843.1	EST_HUMAN	Q13137 NDP52 ;
7286	20369	33823	0.91	1.0E-102	BE729323.1	EST_HUMAN	U1-H-B13-ajl-d-10-0-JLs1 NCI_QGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736835 3'
7314	20396	33858	1.02	1.0E-102	BE386108.1	EST_HUMAN	601861508F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831241 5'
7429	20508	33977	1.5	1.0E-102	AB023177.1	NT	601277216F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618243 5'
7510	20594	34057	8.03	1.0E-102	AJ238994.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7802	20858	34350	2.61	1.0E-102	AV710738.1	EST_HUMAN	Homo sapiens mRNA for Centaurin-alpha2 protein
8418	21499	35031	3.85	1.0E-102	BE783051.1	EST_HUMAN	AV710738 Cu Homo sapiens cDNA clone CUAAXD03 5'
8691	21771	35301	1.71	1.0E-102	AV694817.1	EST_HUMAN	QV3-NT0025-210500-238-H08 NT0025 Homo sapiens cDNA
8691	21771	35302	1.71	1.0E-102	AV694817.1	EST_HUMAN	AV694817 GKC Homo sapiens cDNA clone GKCEEE11 5'
8802	21881	35419	0.81	1.0E-102	AB007923.1	NT	AV694817 GKC Homo sapiens cDNA clone GKCEEE11 5'
9131	22210	35754	1.2	1.0E-102	BE388063.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
9131	22210	35755	1.2	1.0E-102	BE388063.1	EST_HUMAN	60128370F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
9481	22538	36102	0.84	1.0E-102	AV756842.1	EST_HUMAN	60128370F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
9522	22587	36155	2	1.0E-102	T70393.1	EST_HUMAN	AV756842 BM Homo sapiens cDNA clone BMFAUD08 5'
9522	22587	36166	2	1.0E-102	T70393.1	EST_HUMAN	y413d07.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:67021 5'
9511	22686	36237	3.11	1.0E-102	AU124629.1	EST_HUMAN	y413d07.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:67021 5'

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
10593	23628		0.64	1.0E-102	AF153715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
10647	23681	37291	0.67	1.0E-102	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
10647	23681	37292	0.67	1.0E-102	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
10687	23720	37325	3.26	1.0E-102	AB05037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
10687	23720	37326	3.26	1.0E-102	AB05037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
10748	23781	37394	1.5	1.0E-102	AA970768.1	EST_HUMAN	on57h04.s1 Scores_NFL_T_GSC_S1 Homo sapiens cDNA clone IMAGE:1660823 3' similar to SW:CAV2_HUMAN P51636 CAVEOLIN-2 [1];
11323	24386	38030	1.37	1.0E-102	BE897468.1	EST_HUMAN	601436392F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924186 5'
11327	24390	38035	2.44	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11327	24390	38036	2.44	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11800	24653	38337	1.47	1.0E-102	AA868675.1	EST_HUMAN	ak49h10.s1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1409347 3'
11690	24688	38378	2.47	1.0E-102	BF359243.1	EST_HUMAN	RC8-ET0072-150800-011-F01 ET0072 Homo sapiens cDNA
12009	24994	38699	2.83	1.0E-102	U41302.1	NT	Human chromosome 18 creatine transporter (SLC6A8) and (ODM) paralogous genes, complete cds
12182	25142		5.69	1.0E-102	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21CQ80
12775	25517	32000	5.87	1.0E-102	AW300862.1	EST_HUMAN	x07c12.x1 NCL_CGAP_Co20 Homo sapiens cDNA clone IMAGE:2668038 3'
12831	25553	32015	1.26	1.0E-102	11419159	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4), mRNA
71	13308	26331	0.85	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
71	13308	26332	0.85	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
102	13338	26385	8.24	1.0E-103	D87078.2	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
213	13436	26466	0.84	1.0E-103	5453793	NT	Homo sapiens nucleolar protein (KKEID Repeat) (NOP56) mRNA
1004	14175	27234	74.34	1.0E-103	AJ278348.1	NT	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
1272	14429	27500	7.08	1.0E-103	BE877641.1	EST_HUMAN	601485388F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887876 5'
1626	14778	27863	3.61	1.0E-103	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230) mRNA, complete cds
1684	15107	28207	1.02	1.0E-103	7687692	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
2031	15172	28280	0.95	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2031	15172	28281	0.95	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2378	15510	28638	1.95	1.0E-103	AU134691.1	EST_HUMAN	AU134691 PLACE1 Homo sapiens cDNA clone PLACE100966 5'
2523	15548	28772	1.84	1.0E-103	AF060693.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
2865	15805	28921	1	1.0E-103	N32770.1	EST_HUMAN	yyw91d08.s1 Scores_placenta_8to9weeks_2N4b-P8to9W Homo sapiens cDNA clone IMAGE:266689 3'
3137	16313		2.76	1.0E-103	BE744722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834315 5'
3487	16834	28853	5.33	1.0E-103	AW288246.1	EST_HUMAN	UI-HBW0-aj14-11-0-UI.s1 NCL_CGAP_Sub88 Homo sapiens cDNA clone IMAGE:2733166 3'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3528	16691	29700	0.95	1.0E-103	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
3850	17010		5.46	1.0E-103	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
3894	17053	30053	0.9	1.0E-103	AA465563.1	EST_HUMAN	ab10012.1 Stratiogene lung (#637210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element ;
3933	17092	30090	1.54	1.0E-103	11430879	NT	Homo sapiens neuropilin 1 (NRP1), mRNA
4110	17264	30264	4.83	1.0E-103	123663.1	EST_HUMAN	seq340 b4HB3MA-Cct109+10-Big Homo sapiens cDNA clone b4HB3MA-Cct109+10-Big-7 3'
5325	18438		0.63	1.0E-103	AA451816.1	EST_HUMAN	z43504.1 Scores_total_Tetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789199 5' similar to TR:Q292352 G292352 COLLAGEN CHAIN RH ;
6058	19238	32563	0.9	1.0E-103	BF608927.1	EST_HUMAN	602186023F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310573 5'
6063	19245	32571	1.67	1.0E-103	AF179995.1	NT	Homo sapiens septin 2 (SEP2) mRNA, partial cds
6397	19566	32928	0.8	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6397	19566	32927	0.8	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6557	19748	33130	0.84	1.0E-103	AW954555.1	EST_HUMAN	EST1366636 MAGC resequences, MAGC Homo sapiens cDNA
6557	19748	33131	0.84	1.0E-103	AW954556.1	EST_HUMAN	EST1366636 MAGC resequences, MAGC Homo sapiens cDNA
6725	25531	33273	1.15	1.0E-103	AA781442.1	EST_HUMAN	q26603.s1 Scores_testis_NHT Homo sapiens cDNA clone 1391452 3'
6768	19924	33318	0.91	1.0E-103	AF053490.1	NT	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4
6859	20011	33422	1.96	1.0E-103	AI590071.1	EST_HUMAN	tm58505.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789 Q13789 ANONYMOUS ;
6859	20011	33423	1.96	1.0E-103	AI590071.1	EST_HUMAN	tm58505.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789 Q13789 ANONYMOUS ;
6957	18506	31521	1.77	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6957	18506	31522	1.77	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
7108	18535	31490	1.04	1.0E-103	11431100	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
7178	20310	33753	0.98	1.0E-103	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), X13 gene and LZ1FL1 gene
7375	20454	33819	1.88	1.0E-103	AW985776.1	EST_HUMAN	EST1377849 MAGC resequences, MAGC Homo sapiens cDNA
7488	20553	34032	3.6	1.0E-103	BE748158.1	EST_HUMAN	601571537F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838545 5'
7951	21001	34511	4	1.0E-103	AI590071.1	EST_HUMAN	tm58505.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789 Q13789 ANONYMOUS ;
7951	21001	34512	4	1.0E-103	AI590071.1	EST_HUMAN	tm58505.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13789 Q13789 ANONYMOUS ;

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8484	21565	35101	0.59	1.0E-103	T31080.1	EST_HUMAN	EST27193 Human Brain Homo sapiens cDNA 5' end similar to None
8822	21901	35440	1.05	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE200374 5'
8822	21901	35441	1.05	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE200374 5'
8900	21979	35518	1.34	1.0E-103	BF109244.1	EST_HUMAN	710603.x1 Soares_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3525964 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;
9307	22383	35934	3.18	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9307	22383	35935	3.18	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
9349	22425	35980	0.97	1.0E-103	AA581086.1	EST_HUMAN	nd13602.s1 NCL CGAP_Ov1 Homo sapiens cDNA clone IMAGE:800162 3' similar to gb:L02426 26S PROTEASE SUBUNIT 4 (HUMAN);
10283	23298	36896	2.04	1.0E-103	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
10304	23339	36944	2.07	1.0E-103	AW963676.1	EST_HUMAN	EST379749 MAGE resequences; MAGH Homo sapiens cDNA
10443	23478	37083	10.70	1.0E-103	AI878986.1	EST_HUMAN	au51404.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518328 5' similar to TR:O15046 KIAA0338 ;
10878	23963	37591	1.52	1.0E-103	BE549708.1	EST_HUMAN	7b41103.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3230813 3' similar to gb:M69043 MAJOR HISTOCOMPATIBILITY COMPLEX ENHANCER-BINDING PROTEIN (HUMAN);
10971	24051	37684	0.5	1.0E-103	AI792769.1	EST_HUMAN	o102d06.y5 NCL CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1622283 5' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING ;
11072	24147	37786	2.45	1.0E-103	11424081	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
11072	24147	37786	2.45	1.0E-103	11424081	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
11083	24157	37794	2.4	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
11083	24157	37795	2.4	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
11656	24735	38426	2.67	1.0E-103	AU136283.1	EST_HUMAN	AU136283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5'
11731	23917	37542	4.1	1.0E-103	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
11968	24653		1.71	1.0E-103	AB024759.1	NT	Homo sapiens TSA305 gene, exon 16
12044	25025	38730	2.26	1.0E-103	BE644611.1	EST_HUMAN	7e68a10.x1 Soares_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to contains MER28.13 MER28 repetitive element ;
12178	25138		3.4	1.0E-103	AF224698.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12209	25162		1.22	1.0E-103	11526291	NT	Homo sapiens hypodermal protein FLJ20454 (FLJ20454), mRNA
12414	26293	32083	1.71	1.0E-103	AB011368.1	NT	Homo sapiens gene for AF-6, complete cds
243	13465	26494	2.46	1.0E-104	AL037549.3	EST_HUMAN	DKFZp564H1072_r1 584 (synonym: hfr2) Homo sapiens cDNA clone DKFZp564H1072 5'
243	13465	26495	2.46	1.0E-104	AL037549.3	EST_HUMAN	DKFZp564H1072_r1 584 (synonym: hfr2) Homo sapiens cDNA clone DKFZp564H1072 5'
1937	15080	28182	1.92	1.0E-104	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2267	15400	28528	33.29	1.0E-104	AA132976.1	EST_HUMAN	z022c06.s1 Stragene colon (#937204) Homo sapiens cDNA clone IMAGE:587626 3' similar to
2277	15409	28540	4.55	1.0E-104	BE744628.1	EST_HUMAN	gb:Z14116.maf CD59 GLYCOPROTEIN PRECURSOR (HUMAN);
2442	15570	28698	9.73	1.0E-104	BF534221.1	EST_HUMAN	601577460.F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926438 5'
2442	15570	28699	9.73	1.0E-104	BF534221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2508	15533	28763	2	1.0E-104	5031570	NT	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2834	18111	29125	17.99	1.0E-104	M34671.1	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2893	16159	29526	2.15	1.0E-104	Y11151.1	NT	Human lymphocytic antigen CD59/MEM43 mRNA, complete cds
3337	16510	29526	0.99	1.0E-104	AU133926.1	EST_HUMAN	H.sapiens gene encoding phenylpyruvate tautomerase II
3478	16845	29860	2.33	1.0E-104	AA319496.1	EST_HUMAN	AU133926 OVARG1 Homo sapiens cDNA clone OVARG1000638 5'
3690	16852	29861	0.65	1.0E-104	AB033102.1	NT	EST21658 Adrenal gland tumor Homo sapiens cDNA 5' end
3690	16852	29861	0.65	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
4053	17209	30219	0.71	1.0E-104	AB032998.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
4248	17394	30383	0.71	1.0E-104	F11745.1	EST_HUMAN	HSC31A071 normalized infant brain cDNA Homo sapiens cDNA clone c-31a07
4496	17636	30618	33.95	1.0E-104	X02761.1	NT	Human mRNA for fibronectin (FN precursor)
4732	17867	30849	1.2	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4732	17867	30850	1.2	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
6061	19243	32567	1.05	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
6061	19243	32568	1.05	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
6108	19288	32623	0.93	1.0E-104	AB017392.1	NT	Homo sapiens aii3 mRNA for Aurora/Plp1-related kinase 3, complete cds
6596	19758	33142	8.5	1.0E-104	A1768797.1	EST_HUMAN	w03b12.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145
6596	19756	33143	8.5	1.0E-104	A1768797.1	EST_HUMAN	KIAA0132 PROTEIN, contains element LTR7 repetitive element;
6786	19941	33339	0.74	1.0E-104	7706812	NT	KIAA0132 PROTEIN, contains element LTR7 repetitive element;
6942	20255	33692	3.39	1.0E-104	BE314182.1	EST_HUMAN	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6942	20255	33693	3.39	1.0E-104	BE314182.1	EST_HUMAN	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
7373	20452	33917	2.01	1.0E-104	11425572	NT	601150451.F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
8796	21875	35414	0.87	1.0E-104	BF509244.1	EST_HUMAN	601150451.F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
9368	22443	36004	2.41	1.0E-104	BF449230.1	EST_HUMAN	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
9463	22520	36082	0.46	1.0E-104	AA682308.1	EST_HUMAN	U1-H-B14-sow-b-09-Q-U1.s1 NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086176 3'
9484	22541		1.03	1.0E-104	T74219.1	EST_HUMAN	ncad16g11.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3365948 3'
9815	22580	36146	5	1.0E-104	AF091395.1	NT	z98b05.e1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462897 3'
9815	22580	36146	5	1.0E-104	AF091395.1	NT	yc63f02.r1 Soares_infant_brain_1NIB Homo sapiens cDNA clone IMAGE:22440 5'
9816	22580	36147	5	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8841	21084	34597	4.14	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
8841	21084	34598	4.14	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
8865	22894	36588	0.92	1.0E-104	AW103848.1	EST_HUMAN	x878402.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116
8865	22894	36590	0.92	1.0E-104	AW103848.1	EST_HUMAN	x878402.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116
10163	23180	36787	0.49	1.0E-104	AF113514.1	NT	Q24116 HYPOTHETICAL 28.4 KD PROTEIN. ;
10288	23333	36937	3.15	1.0E-104	BE791713.1	EST_HUMAN	Homo sapiens histone acetyltransferase MORF mRNA, complete cds
10288	23333	36938	3.15	1.0E-104	BE791713.1	EST_HUMAN	601681503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10611	23645	37253	1.49	1.0E-104	AV728070.1	EST_HUMAN	601681503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10657	23691	37301	4.47	1.0E-104	AU130765.1	EST_HUMAN	AV728070 HTC Homo sapiens cDNA clone HTCBYA07 5'
10757	23780	37407	0.54	1.0E-104	AA831321.1	EST_HUMAN	AU130765 NT2RP3 Homo sapiens cDNA clone NT2RP3001398 5'
10757	23780	37408	0.54	1.0E-104	AA831321.1	EST_HUMAN	cs06810.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1666370 3'
10774	23807	37430	6.4	1.0E-104	U66535.1	NT	cs06810.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1666370 3'
10791	23824		0.74	1.0E-104	11427757	NT	Human beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25
11577	24632	38310	44.86	1.0E-104	BE720191.1	EST_HUMAN	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
11577	24632	38311	44.86	1.0E-104	BE720191.1	EST_HUMAN	RCO-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
11611	24663	38350	4.1	1.0E-104	BF684288.1	EST_HUMAN	RCO-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
12082	25082	38708	48.12	1.0E-104	11434729	NT	602141215F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302507 5'
13073	25702		1.32	1.0E-104	BE383892.1	EST_HUMAN	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
289	13981	26541	2.57	1.0E-105	4502169	NT	601312191F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658676 5'
438	13236	26238	6.69	1.0E-105	4505150	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
607	13788	26815	2.51	1.0E-105	AF032897.1	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
607	13788	26816	2.51	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1865	15011	28118	10.24	1.0E-105	AL163280.2	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1878	15122	28223	2.39	1.0E-105	D50918.1	NT	Homo sapiens chromosome 21 segment HS21C080
2263	15393	28524	3.06	1.0E-105	AA318369.1	EST_HUMAN	Human mRNA for KIAA0128 gene, partial cds
2398	15529		1.18	1.0E-105	BE891763.1	EST_HUMAN	EST120609 Spleen 1 Homo sapiens cDNA 5' and similar to autoimmunity antigen Ku, p70/p80 subunit
2784	15900		0.98	1.0E-105	AA584808.1	EST_HUMAN	601434101F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919511 5'
3071	16247		2.79	1.0E-105	AJ229041.1	NT	no10405.s1 NCI CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100286 3'
3432	16500	28618	0.86	1.0E-105	7304922	NT	Homo sapiens 968 kb contig between AXL1 and CBX1 on chromosome 21q22; segment 1/3
3432	16500	28619	0.86	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4213	17562	30350	2.23	1.0E-105	AW661688.1	EST_HUMAN	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5053	18181		5.34	1.0E-105	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
5259	18378	31344	1.08	1.0E-105	AB020673.1	NT	Homo sapiens mRNA for KIAA0866 protein, complete cds
5445	18645	31623	1.18	1.0E-105	AF016704.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 2
5513	18711		1.12	1.0E-105	11420134	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
7045	20088	33513	1.44	1.0E-105	BF314302.1	EST_HUMAN	601801028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
7045	20088	33514	1.44	1.0E-105	BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:4130334 5'
7121	18547	31458	3.78	1.0E-105	11419196	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
7121	18547	31459	3.78	1.0E-105	11419196	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
7167	20300	33743	0.72	1.0E-105	AW951834.1	EST_HUMAN	EST1363689 IMAGE resequencing, MAGS Homo sapiens cDNA
7436	20513	33986	0.72	1.0E-105	BE902810.1	EST_HUMAN	60167278F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960019 5'
8043	21126	34847	0.93	1.0E-105	X12558.1	NT	Human mRNA for dhl proto-oncogene
8217	21299	34820	11.05	1.0E-105	T05087.1	EST_HUMAN	EST028375 Fetal brain, Striatum (cat#36206) Homo sapiens cDNA clone IMAGE:2500628 3' similar to
8592	21673	35211	1.93	1.0E-105	AW007194.1	EST_HUMAN	SW60c10.x1 NCI_CGAP_Bim25 Homo sapiens cDNA clone IMAGE:2500628 3' similar to
9128	22207	35750	0.82	1.0E-105	AW840817.1	EST_HUMAN	SW60c10.x1 NCI_CGAP_PENCH P36833 ACETYL-COENZYME A SYNTHETASE ;
9250	22327	35874	2.51	1.0E-105	AW016879.1	EST_HUMAN	RG1-GN0008-070100-011-e05 CN0008 Homo sapiens cDNA
9404	22478	36041	0.83	1.0E-105	AW882372.1	EST_HUMAN	UHH-B10p-abi-b-12-0-U1.1st NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2711782 3'
9404	22478	36042	0.83	1.0E-105	AW882372.1	EST_HUMAN	QV2-OT0062-140300-083-d09 OT0062 Homo sapiens cDNA
9767	22784	36333	0.75	1.0E-105	BE867793.1	EST_HUMAN	QV2-OT0062-140300-083-d09 OT0062 Homo sapiens cDNA
9767	22784	36334	0.76	1.0E-105	BE867793.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
11173	24243	37876	4.82	1.0E-105	AF254822.1	NT	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
11508	24584	38241	1.42	1.0E-105	D63548.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
11559	24614	38293	1.85	1.0E-105	7705936	NT	Homo sapiens COL4A8 gene for a(IV) collagen, exon 31
11887	24875	38572	2.62	1.0E-105	AW027554.1	EST_HUMAN	Homo sapiens Ran binding protein 11 (LOC31194), mRNA
11972	24957	38659	1.48	1.0E-105	BF430921.1	EST_HUMAN	w7407.x1 Soares_thymus_NHFT Homo sapiens cDNA clone IMAGE:2555301 3' similar to TR:P87892
12111	25091	38794	1.3	1.0E-105	AF218896.1	EST_HUMAN	P87892 PROTEASE ;
155	13380		0.98	1.0E-105	AW503208.1	EST_HUMAN	7a18c10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3574291 3' similar to TR:P97680 P97680
210	13433	26464	5.14	1.0E-105	AF565065.1	EST_HUMAN	RIN1.1 ;
565	13748	26774	1.89	1.0E-105	AW565566.1	EST_HUMAN	Homo sapiens attractin precursor (ATRIN) gene, exon 8
620	13807	26828	0.8	1.0E-105	J00145.1	NT	UI-HF-BN0-akt-g-07-0-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
621	13907	26828	1.13	1.0E-105	J00148.1	NT	UI-HF-BN0-akt-g-07-0-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
1554	14707	27787	8.84	1.0E-105	AF145712.1	NT	601901028F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:2215008 3'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1736	14985	27978	7.83	1.0E-106	U48724.1	NT	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
1757	14906	26000	1.33	1.0E-106	U04510.1	NT	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 41
1846	14992	28093	5.51	1.0E-106	AA527446.1	EST_HUMAN	hg41cd5.s1 NC1_CGAP_Co3 Homo sapiens cDNA clone IMAGE:837352 3' similar to contains element LTR3 repetitive element
1846	14992	28094	5.51	1.0E-106	AA527446.1	EST_HUMAN	hg41cd5.s1 NC1_CGAP_Co3 Homo sapiens cDNA clone IMAGE:837352 3' similar to contains element LTR3 repetitive element
2191	15326	28451	1.94	1.0E-106	BE144286.1	EST_HUMAN	MRO-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA
2391	15522	28651	3.62	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2574	15689	28821	2.19	1.0E-106	AF035528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2667	15788	28904	1.93	1.0E-106	U04875.2	NT	Homo sapiens sperm membrane protein BS-63 mRNA, complete cds
2669	15790	28909	2.01	1.0E-106	BE260201.1	EST_HUMAN	601149783F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502461 5'
2815	15829	29041	8.05	1.0E-106	A1276528.1	EST_HUMAN	q178h10.x1 Scores_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1970307 3'
2866	14817	27700	1.84	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2866	14817	27701	1.84	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2899	16116	29128	1.18	1.0E-106	BE384296.1	EST_HUMAN	601272875F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3613818 5'
3007	16182	29204	5.7	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
3007	16182	29205	5.7	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1328 protein, partial cds
3248	16422	29439	2.5	1.0E-106	8922865	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3248	16422	29439	2.5	1.0E-106	8922865	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3461	16828	29648	1.04	1.0E-106	AB008681.1	NT	Homo sapiens gene for actinin receptor type IIb, complete cds
3527	16992	29701	1.07	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3527	16992	29702	1.07	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4149	17301	30293	9.2	1.0E-106	AW974650.1	EST_HUMAN	EST386876 MAGE resequences, MAGN Homo sapiens cDNA
4149	17301	30294	9.2	1.0E-106	AW974650.1	EST_HUMAN	EST386875 MAGE resequences, MAGN Homo sapiens cDNA
4723	17858	30840	2.27	1.0E-106	BE144286.1	EST_HUMAN	MRO-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA
5485	18694	31701	2.95	1.0E-106	AA781155.1	EST_HUMAN	aj24909.s1 Scores_testis_NHT Homo sapiens cDNA clone 1391225 3' similar to gb:U12433 PROTEIN PHPS1-2 (HUMAN)
5976	19161	32480	0.95	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5976	19161	32481	0.95	1.0E-106	AU130113.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
6026	19209	32529	0.61	1.0E-106	AA434168.1	EST_HUMAN	z626d12.s1 Scores ovary tumor N5HOT Homo sapiens cDNA clone IMAGE:770615 3'
6116	19269	32631	1	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y78AA1 Homo sapiens cDNA clone Y78AA1001912 5'
6116	19269	32632	1	1.0E-106	AU143428.1	EST_HUMAN	AU143428 Y78AA1 Homo sapiens cDNA clone Y78AA1001912 5'
6227	19402	32752	8.39	1.0E-106	BF679574.1	EST_HUMAN	602154012F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4285067 5'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6336	19507	32864	0.81	1.0E-106	BE897112.1	EST_HUMAN	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6526	19507	32864	0.66	1.0E-106	BE897112.1	EST_HUMAN	601439670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
6549	19711	33087	15.91	1.0E-106	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6549	19711	33088	15.91	1.0E-106	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
7528	20601	34075	5.69	1.0E-106	AA683779.1	EST_HUMAN	ae72ed7 s1 Stragelene schizob brain S11 Homo sapiens cDNA clone IMAGE:968732 3' similar to gb:565873
7582	20654	34130	4.17	1.0E-106	11429617	NT	KINESIN HEAVY CHAIN (HUMAN);
7872	20738	34216	1.84	1.0E-106	BE292722.1	EST_HUMAN	Homo sapiens XPMG2 protein (LOC57109), mRNA
7787	20843	34335	8.06	1.0E-106	11425503	NT	601108736F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988345 5'
7787	20843	34336	8.06	1.0E-106	11425503	NT	Homo sapiens sorting nexin 11 (SNX11), mRNA
7994	21044	34556	0.6	1.0E-106	AL116850.1	EST_HUMAN	Homo sapiens sorting nexin 11 (SNX11), mRNA
8173	21255	34776	3.82	1.0E-106	BE741408.1	EST_HUMAN	AU116850 HEMBA1 Homo sapiens cDNA clone HEMBA1000129 5'
8173	21255	34777	3.82	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8368	21449	34972	2.21	1.0E-106	AI523066.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
8830	21909	35447	0.64	1.0E-106	BE387950.1	EST_HUMAN	ar68a07 x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2127732 3' similar to gb:X06233
8830	21909	35448	0.64	1.0E-106	BE387950.1	EST_HUMAN	CALGRANULIN B (HUMAN);
8903	21982	35522	2.77	1.0E-106	AI654123.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
9252	22329	35878	0.83	1.0E-106	AW838831.1	EST_HUMAN	601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604493 5'
9348	22424	35978	2.34	1.0E-106	AA825307.1	EST_HUMAN	ly62a05 x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2283632 3' similar to SW:ICAG_HUMAN
9348	22424	35979	2.34	1.0E-106	AA825307.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
9486	22543	36108	0.77	1.0E-106	AI760447.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
9629	22884	36255	1.94	1.0E-106	AI479569.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
9629	22884	36256	1.94	1.0E-106	AI479569.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
10205	23241	36832	0.6	1.0E-106	BE389234.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
10289	23324	36928	1.09	1.0E-106	BF027310.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
10289	23324	36927	1.09	1.0E-106	BF027310.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
10446	23481	37088	10.7	1.0E-106	AA804417.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
10446	23481	37089	10.7	1.0E-106	AA804417.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
10482	23527	37136	1.83	1.0E-106	AW383289.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10497	23532	37141	0.66	1.0E-106	11436432	NT	Homo sapiens multimerin (MMRN), mRNA
10497	23532	37142	0.66	1.0E-106	11436432	NT	Homo sapiens multimerin (MMRN), mRNA
10678	23712	37320	0.65	1.0E-106	AL039886.1	EST_HUMAN	DKFZp434F0712.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434F0712 5'
10807	23640	37464	4.20	1.0E-106	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
11135	24207	37832	4.81	1.0E-106	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3657366 5'
11135	24207	37833	4.81	1.0E-106	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3657366 5'
11317	24380	38025	2.06	1.0E-106	J05200.1	NT	Human tyrosine receptor mRNA, complete cds
11317	24380	38026	2.06	1.0E-106	J05200.1	NT	Human tyrosine receptor mRNA, complete cds
11694	24962	38383	1.35	1.0E-106	BE257385.1	EST_HUMAN	601109219F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3349997 5'
11837	24826	38514	1.89	1.0E-106	BE010882.1	EST_HUMAN	RC5-BN0192-100500-021-B02 BN0192 Homo sapiens cDNA
11837	24826	38515	1.89	1.0E-106	BE010882.1	EST_HUMAN	RC5-BN0192-100500-021-B02 BN0192 Homo sapiens cDNA
12253	25046	4.3	1.0E-106	AW410405.1	EST_HUMAN	h09h11.xt NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2661644 5'	
12484	25336	32059	1.97	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
12484	25336	32060	1.97	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
12717	25477	3.71	1.0E-106	BE686005.1	EST_HUMAN	RC1-CT0249-090800-024-005 CT0249 Homo sapiens cDNA	
244	13466		4.52	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
275	13493		0.9	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
637	13522		1.03	1.0E-107	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
647	13632	26859	2.34	1.0E-107	AF155103.1	NT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
836	14014	27069	1.02	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
909	14084	27149	1.38	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
891	14169	27223	9.71	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1307	14463	27531	1.08	1.0E-107	AB032253.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1500	14753	27836	3.81	1.0E-107	BF087405.1	EST_HUMAN	QV2-HT0540-120900-358-a05 HT0540 Homo sapiens cDNA
1791	14940	28033	5.42	1.0E-107	AF136275.1	NT	Homo sapiens cathepsin Z precursor (CTSZ) gene, exon 3
1887	15031	28138	1.52	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
1887	15031	28139	1.52	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2282	15414	28546	3.77	1.0E-107	U13729.1	NT	Human dipeptidyl peptidase IV (CD26) gene, exon 20
2435	15503	28691	4.03	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
2435	15503	28692	4.03	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
3072	16248	29268	6.14	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
3072	16248	29269	6.14	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-403 CN0031 Homo sapiens cDNA
3169	16344	29352	2.9	1.0E-107	5902097	NT	Homo sapiens SMT3 (suppressor of mitf two 3, yeast) homolog 2 (SMT3H2), mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3931	17090	30087	4.89	1.0E-107	AF020571.1	NT	Homo sapiens myotubularin (MTM1) gene, exon 9
5742	18935	32235	0.84	1.0E-107	AW969038.1	EST_HUMAN	EST1381115 IMAGE reassurances, MAGK Homo sapiens cDNA
5986	19171	32493	2.71	1.0E-107	BE867489.1	EST_HUMAN	801442558F1 NIH_MGC_85 Homo sapiens cDNA clone IMAGE:3848494 5'
7520	20593	34067	1.33	1.0E-107	AW503913.1	EST_HUMAN	U1HF-BN0-alf-c-08-0-U1.7 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7520	20593	34068	1.33	1.0E-107	AW503913.1	EST_HUMAN	U1HF-BN0-alf-c-08-0-U1.7 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7698	20763	34247	1.36	1.0E-107	AJ765078.1	EST_HUMAN	wh56h04.x1 NCI_CGAP_K1d11 Homo sapiens cDNA clone IMAGE:2394791 3'
7908	20881	34467	0.59	1.0E-107	AJ404488.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH8 gene)
7908	20961	34468	0.59	1.0E-107	AJ404488.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
9587	22729	36299	0.99	1.0E-107	AU122469.1	EST_HUMAN	AU122469 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 5'
10889	23973	37604	1.92	1.0E-107	BE168726.1	EST_HUMAN	QV1-HT0516-140300-107-g10 RT0516 Homo sapiens cDNA
10944	24026	37662	2.96	1.0E-107	AIS92850.1	EST_HUMAN	Ig10408.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SWAACT_DICDI
11189	24258	37894	1.58	1.0E-107	L49141.1	NT	P05095 ALPHA-ACTININ 3, NON MUSCULAR
11202	24271	37907	2.3	1.0E-107	BF866511.1	EST_HUMAN	Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
11603	24558	38341	3.91	1.0E-107	BE540560.1	EST_HUMAN	802123963F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:4281039 5'
11676	23604	37526	4.29	1.0E-107	11419701	NT	801066631F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452829 5'
11676	23904	37527	4.29	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
12322	26100		7.14	1.0E-107	AA001415.1	EST_HUMAN	Homo sapiens HSPC049 protein (HSPC049), mRNA
13211	25790	31920	1.24	1.0E-107	BE798189.1	EST_HUMAN	2a45e01.x1 Scores retina N2b-4HR Homo sapiens cDNA clone IMAGE:361944 3' similar to contains THR.b1 THR repetitive element
977	14160	27210	1.72	1.0E-108	BE296042.1	EST_HUMAN	601582632F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3937188 5'
1294	14450	27515	2.41	1.0E-108	Y18000.1	NT	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532348 5'
2140	15276	28398	1.02	1.0E-108	BF026728.1	EST_HUMAN	Homo sapiens NF2 gene
2407	15538	28666	12.11	1.0E-108	A1688040.1	EST_HUMAN	601671914F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954939 5'
2407	15538	28666	12.11	1.0E-108	A1688040.1	EST_HUMAN	891e10.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248838 3' similar to gbM14219 BONE
2498	15526	28746	11.96	1.0E-108	BE206694.1	EST_HUMAN	PROTEOGLYCAN II PRECURSOR (HUMAN);
3025	16201	29224	0.64	1.0E-108	6006079	NT	891e10.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248838 3' similar to gbM14219 BONE
3430	16598	29614	0.84	1.0E-108	AF032897.1	NT	PROTEOGLYCAN II PRECURSOR (HUMAN);
3430	16598	29615	0.64	1.0E-108	AF032897.1	NT	891e10.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248838 3' similar to gbM14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
							bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963899 3' similar to gbX53777 80S RIBOSOMAL PROTEIN L23 (HUMAN); gbJ05277 Mouse hexokinase mRNA, complete cds (MOUSE);
							Homo sapiens Kruppel-like factor 8 (KLF8), mRNA
							Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
							Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal:	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4273	17418	30406	1.57	1.0E-108	AW664438.1	EST_HUMAN	h12a11.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2972060 3' similar to SW:3BP1_MOUSE
4647	17763	30765	2.62	1.0E-108	U72961.1	NT	P55194 SH3-BINDING PROTEIN 3BP-1;
4647	17763	30766	2.62	1.0E-108	U72961.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4927	18057	31040	3.37	1.0E-108	7651979	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
5037	18165	31141	0.63	1.0E-108	AW504799.1	EST_HUMAN	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5063	18191	31166	3.18	1.0E-108	AJ008003.1	NT	U1HF-BNO-ahr-e-04-Q-U1.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3080166 5'
5596	18791	31839	1.24	1.0E-108	AW384094.1	EST_HUMAN	RCO-H10372-241199-031-03 H10372 Homo sapiens cDNA
5644	18838	31916	2.56	1.0E-108	BE869016.1	EST_HUMAN	601444922F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:3848980 5'
5644	18838	31917	2.56	1.0E-108	BE869016.1	EST_HUMAN	601444922F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:3848980 5'
5949	19232	32844	0.66	1.0E-108	AF012623.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20
6125	19304	32844	0.74	1.0E-108	BF334851.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6287	19441	32789	6.14	1.0E-108	AF284717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6267	19441	32790	6.14	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
6392	19561	32821	1.22	1.0E-108	AJ133269.1	NT	Homo sapiens caveolin-1/2 locus, Contig 1, DTS622, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6489	19604	32844	1.09	1.0E-108	BF334851.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6753	19909	33302	0.64	1.0E-108	AF016706.1	NT	Homo sapiens EG-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
6753	19909	33303	0.64	1.0E-108	AF016706.1	NT	Homo sapiens EG-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
7308	20360	33850	4.52	1.0E-108	17431857	NT	Homo sapiens G protein-coupled receptor, family C, group 5, member B (GPRC5B), mRNA
7597	20667	34143	2.12	1.0E-108	4756333	NT	Homo sapiens delta-6 fatty acid desaturase (FADS6) mRNA
7648	20715	34193	1.32	1.0E-108	BE252607.1	EST_HUMAN	601113471F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354084 5'
7674	20739	34218	0.73	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4181037 5'
7674	20739	34219	0.73	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4181037 5'
8294	21338	34910	1.72	1.0E-108	AF083500.1	NT	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8306	21388	34911	0.61	1.0E-108	AW408694.1	EST_HUMAN	U1HF-BMO-ade-e-12-Q-U1.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062378 5'
8306	21388	34911	0.61	1.0E-108	AW408694.1	EST_HUMAN	U1HF-BMO-ade-e-12-Q-U1.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062378 5'
9247	22324	35969	0.77	1.0E-108	AF203977.1	NT	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds
9287	22363	35912	0.46	1.0E-108	N44974.1	EST_HUMAN	y35h10.1 Soares melanocyte 2NbrHM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR:A45773
10847	23880	37500	1.08	1.0E-108	11428155	NT	A45773 kelch protein, long form - fruit fly; Homo sapiens similar to high-mobility group (nonhistone chromosomal) protein 4 (H. sapiens) (LOC63446), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10904	21037	34549	2.09	1.0E-108	BE535227.1	EST_HUMAN	601058769F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3445361 5'
11066	18601	31537	2.67	1.0E-108	Y12490.1	NT	Homo sapiens mRNA for Golgi-associated microtubule-binding protein (GMAP-210)
11319	24382	38027	1.35	1.0E-108	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-48, and partial cds, alternatively spliced
11549	24905	38283	3.46	1.0E-108	AW966185.1	EST_HUMAN	EST1378258 MAGE resequences, MAGI Homo sapiens cDNA
11605	24658	38343	1.71	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAE03 5'
11605	24658	38344	1.71	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAE03 5'
11652	24731		2.77	1.0E-108	11441465	NT	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
11688	15538	28665	2.99	1.0E-108	AI686040.1	EST_HUMAN	t891e10.x1 NCL_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
11688	15538	28666	2.99	1.0E-108	AI686040.1	EST_HUMAN	PROTEOGLYCAN II PRECURSOR (HUMAN);
11712	24752	38446	1.72	1.0E-108	D63539.1	NT	t891e10.x1 NCL_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
12489	25344	32064	4.15	1.0E-108	AK02447.1	NT	PROTEOGLYCAN II PRECURSOR (HUMAN);
12940	25618		5.09	1.0E-108	BF346356.1	EST_HUMAN	Homo sapiens COL4A6 gene for $\alpha 6$ (IV) collagen, exon 23
43	13281	26287	1.01	1.0E-109	AW803116.1	EST_HUMAN	Homo sapiens mRNA for FLJ00037 protein, partial cds
68	13303	26326	1.17	1.0E-109	D86974.1	NT	602018571F1 NCL_CGAP_Brn87 Homo sapiens cDNA clone IMAGE:4154297 5'
225	13447	26475	3.34	1.0E-109	11422486	NT	IL2-UM0077-260400-079-D06 UM0077 Homo sapiens cDNA
235	13456	26482	2.77	1.0E-109	11438391	NT	Human mRNA for KIAA0220 gene, partial cds
479	13674	26705	2.28	1.0E-109	4507712	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
611	13800	26820	14.77	1.0E-109	AB023216.1	NT	Homo sapiens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
1037	14205	27262	1.62	1.0E-109	AB023216.1	NT	Homo sapiens tetratricopeptide repeat domain 2 (TTG2), mRNA
1229	14389	27451	8.5	1.0E-109	M28699.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1230	14389	27451	6.38	1.0E-109	M28699.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1573	14726	27807	0.99	1.0E-109	BE293673.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C049
1923	15068	28170	2.3	1.0E-109	DI3643.2	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1), mRNA, complete cds
2314	15446	28580	5.46	1.0E-109	AL163284.2	NT	Homo sapiens nuclear phosphoprotein B23 (NPM1), mRNA, complete cds
2326	15457	28589	3.65	1.0E-109	Y17123.1	NT	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
2687	15907	28923	19.35	1.0E-109	AI022328.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
2687	15907	28924	19.35	1.0E-109	AI022328.1	EST_HUMAN	Homo sapiens mRNA for KIAA0018 protein, partial cds
							Homo sapiens chromosome 21 segment HS21C084
							Homo sapiens SNF5/INI1 gene, exon 6
							ow95a01.x1 Scarses_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to
							TR:O02197 O02197 CIRCULATING CATHODIC ANTIGEN, ;
							ow95a01.x1 Scarses_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to
							TR:O02197 O02197 CIRCULATING CATHODIC ANTIGEN, ;

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2988	15808	28925	2.68	1.0E-109	4504206	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
3125	16301	28314	3.37	1.0E-109	N85190.1	EST_HUMAN	J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN ZNF43
3475	16842	29861	2.08	1.0E-109	AW593192.1	EST_HUMAN	CM3-NN0009-180400-150-f10 NN0009 Homo sapiens cDNA
3475	16842	29862	2.08	1.0E-109	AW593192.1	EST_HUMAN	CM3-NN0009-180400-150-f10 NN0009 Homo sapiens cDNA
3606	16770	29785	1.1	1.0E-109	AF240968.1	NT	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3845	17104		1.31	1.0E-109	BE146144.1	EST_HUMAN	MR0-HT0209-110400-108-a04 HT0209 Homo sapiens cDNA
4284	17409	30395	4.35	1.0E-109	AI655417.1	EST_HUMAN	ts98906.x1 NC1_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP:F53A2.8 CE16100 ;
4624	17863	30850	2.57	1.0E-109	4504206	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
4722	17857	30839	1.7	1.0E-109	7662083	NT	Homo sapiens KIAA0377 gene product (KIAA0377) mRNA
5165	18267	31252	0.72	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:2859636 5'
5165	18267	31253	0.72	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:2859636 5'
5381	18564	31480	0.67	1.0E-109	AU137282.1	EST_HUMAN	AU137282 PLAGE1 Homo sapiens cDNA clone PLAGE1006159 5'
5374	18577	31445	0.92	1.0E-109	BF873718.1	EST_HUMAN	602136446F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4272922 5'
5426	18628	31604	2.92	1.0E-109	5174622	NT	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
5724	18917		1.23	1.0E-109	BE179358.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
6050	26817	32556	1.23	1.0E-109	BF379888.1	EST_HUMAN	CM1-UT0038-060900-399-R07 UT0038 Homo sapiens cDNA
6116	18917		1.41	1.0E-109	BE179358.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
6721	19878	33289	0.85	1.0E-109	AI221385.1	EST_HUMAN	qg86h08.x1 Soares_NFL_T_GBC ST Homo sapiens cDNA clone IMAGE:1842111 3'
6907	20222	33651	0.69	1.0E-109	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4) mRNA
6907	20222	33652	0.69	1.0E-109	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4) mRNA
7388	20467	33833	0.67	1.0E-109	AB046911.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
7738	20799	34288	3.75	1.0E-109	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1) mRNA
7740	20801	34290	4.91	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7740	20801	34291	4.91	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
8366	21447	34970	1.35	1.0E-109	AL049784.1	NT	Novel human gene mapping to chromosome 13
8480	21561	35098	1.39	1.0E-109	AW749130.1	EST_HUMAN	PM0-BT0340-091299-002-e05 BT0340 Homo sapiens cDNA
8857	21838		2.84	1.0E-109	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
8932	22011	35549	4.36	1.0E-109	BE787540.1	EST_HUMAN	601478417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8932	22011	35550	4.36	1.0E-109	BE787540.1	EST_HUMAN	601478417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
9177	22255	35797	0.57	1.0E-109	BE146572.1	EST_HUMAN	IL0-HT0205-071199-142-g07 HT0205 Homo sapiens cDNA
9439	22513		1.65	1.0E-109	H84890.1	EST_HUMAN	ys90g08.r1 Soares retina N2b5HR Homo sapiens cDNA clone IMAGE:222110 5' similar to SP:A53491
							A53491 BUMETANIDE-SENSITIVE NA-K-Cl COTRANSPORTER - SPINY ;

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9550	22615	36184	0.64	1.0E-109	BE397088.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
9550	22615	36185	0.64	1.0E-109	BE397088.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
9885	22734	36304	1.37	1.0E-109	F06604.1	EST_HUMAN	HSC1EC121 normalized Infant brain cDNA Homo sapiens cDNA clone c-1e012
11013	24092	37730	1.8	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
11013	24092	37731	1.8	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
11046	24123	37757	19.68	1.0E-109	BF604831.1	EST_HUMAN	602080724F2 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245341 5'
11387	24448	38109	1.57	1.0E-109	AU121370.1	EST_HUMAN	AU121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002690 5'
11651	24730	38422	2.18	1.0E-109	4502838	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
11693	24691	38382	4.5	1.0E-109	W16510.1	EST_HUMAN	2b08b12.r1 Scars_fetal_Lung_NbHL19W Homo sapiens cDNA clone IMAGE:301439 5' similar to PIR-S43969 S43969 p54-beta stress-activated protein kinase - rat ;
11884	24872	38569	1.64	1.0E-109	BE045560.1	EST_HUMAN	hH2305.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2955989 3' similar to TR:Q8Z124 Q8Z124
11848	24934	38636	1.5	1.0E-109	AL119824.1	EST_HUMAN	YGR163W MRNA HOMOLOGUE, COMPLETE CDS ;
11984	24989	38673	1.31	1.0E-109	11418618	NT	DKFZp7611124_r1 761 (synonym: ham2) Homo sapiens cDNA clone DKFZp7611124 5'
12126	25106	38810	2.26	1.0E-109	AB007982.1	NT	Homo sapiens single-minded (Drosophila) homolog 1 (SIM1), mRNA
12397	15487	28589	2.32	1.0E-109	Y17123.1	NT	Homo sapiens mRNA for KIAA0463 protein, partial cds
12636	15457	28589	3.2	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
12762	25608	32036	8.36	1.0E-109	AB011398.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
3	13242	26242	1.4	1.0E-110	7549804	NT	Homo sapiens gene for AF-3, complete cds
38	13276	26281	3.96	1.0E-110	5803073	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
38	13276	26282	3.96	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
112	13242	26242	1.83	1.0E-110	7549804	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
305	13521	26555	1.31	1.0E-110	D87291.1	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
540	13733	26757	1.04	1.0E-110	U84550.1	NT	Human mRNA for inward rectifier potassium channel, complete cds
1207	14389	27429	0.89	1.0E-110	5031620	NT	Human dystrobrevin (DTN) gene, exon 20
1308	14484	27532	1.02	1.0E-110	AB032263.1	NT	Homo sapiens calcitonin receptor-like (CALCRL) mRNA
1973	15116	28217	1.51	1.0E-110	BE379477.1	EST_HUMAN	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
2118	15256		1.99	1.0E-110	BF508896.1	EST_HUMAN	601237545F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609883 5'
2903	16081		7.19	1.0E-110		NT	U1H-B14-aos-b-05-Q-U1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
3156	16331		1.48	1.0E-110	U78027.1	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
3264	16438	29457	2.66	1.0E-110	11436041	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
3264	16438	29458	2.66	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4320	17463	30449	1.09	1.0E-110	M15918.1	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
							Human autoimmune antigen small nuclear ribonucleoprotein E pseudogene

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4758	17893	30872	2.04	1.0E-110	AI017213.1	EST_HUMAN	ou32b10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627863 3' similar to SW:NI21, RAT P52591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 ;
4777	17912	30897	3.01	1.0E-110	AU117812.1	EST_HUMAN	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
5083	18216		2.28	1.0E-110	7882441	NT	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
5409	18611	31583	2.23	1.0E-110	BE299408.1	EST_HUMAN	601118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028538 5'
5843	19033	32339	0.78	1.0E-110	BE621069.1	EST_HUMAN	601493677F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895795 5'
5860	19050	32358	8.61	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5860	19050	32357	8.61	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5858	25835	33421	5.43	1.0E-110	M55112.1	NT	Human cyclic fibroblast transmembrane conductance regulator (CFTR) gene, exon 7
7179	20311	33754	0.59	1.0E-110	BE281486.1	EST_HUMAN	601106888F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350277 5'
7251	20334	33782	0.85	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7251	20334	33783	0.85	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7477	20552	34025	0.78	1.0E-110	AI560289.1	EST_HUMAN	h12d08.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN
7583	20655	34131	16.19	1.0E-110	AV714276.1	EST_HUMAN	P50549 ETS TRANSLOCATION VARIANT 1;
7583	20655	34132	16.19	1.0E-110	AV714276.1	EST_HUMAN	AV714276 DCB Homo sapiens cDNA clone DOBCCGE01 5'
7613	20683	34159	2.87	1.0E-110	AB020675.1	NT	AV714276 DCB Homo sapiens cDNA clone DOBCCGE01 5'
7743	20804	34283	0.66	1.0E-110	AU137923.1	EST_HUMAN	Homo sapiens mRNA for KIAA0868 protein, partial cds
9536	22801	36174	1.09	1.0E-110	BE302594.1	EST_HUMAN	AU137923 PLACE1 Homo sapiens cDNA clone PLACE1007511 5'
9777	22817	36395	2.46	1.0E-110	AW838394.1	EST_HUMAN	ba6801.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2605661 5' similar to TR:O77258 O77258
10529	23584	37171	3.38	1.0E-110	11432732	NT	EG-11 4D9.2 PROTEIN ;
10586	24065	37700	3.2	1.0E-110	Y12337.1	NT	QV2-LT0053-020400-119-e04 LT0053 Homo sapiens cDNA
11209	24278	37918	3.64	1.0E-110	BE734357.1	EST_HUMAN	Homo sapiens galactokinase 2 (GALK2), mRNA
11209	24278	37917	3.64	1.0E-110	BE734357.1	EST_HUMAN	H sapiens mRNA for myotonic dystrophy protein kinase like protein
11608	24661	38347	1.89	1.0E-110	M10051.1	NT	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
11728	25914	37539	1.7	1.0E-110	AA446529.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
12211	25164		2.47	1.0E-110	BE897218.1	EST_HUMAN	Human insulin receptor mRNA, complete cds
12941	25246		2.86	1.0E-110	AW062256.1	EST_HUMAN	zw67g02.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781298 5' similar to TR:G1145810
12994	25400		2.98	1.0E-110	AB011399.1	NT	G1145816 FKBP54 ;
12746	25113		6.01	1.0E-110	BF384546.1	EST_HUMAN	601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924548 5'
13071	15256		1.16	1.0E-110	BF508808.1	EST_HUMAN	IL0-B70163-04089-094-g10 BT0163 Homo sapiens cDNA
179	13402		11.92	1.0E-111	U43701.1	NT	Homo sapiens gene for AF-8, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
201	13424	28465	1.84	1.0E-111	4758807	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
753	13934		1.99	1.0E-111	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3862086 5'
762	13943	26989	4.13	1.0E-111	8393092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
850	14123	27185	2.5	1.0E-111	M25142.1	NT	Human cardiac alpha-myosin heavy chain (MYH6) gene, exons 32 to 34
4288	17431	30419	1.15	1.0E-111	7861569	NT	Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA
4449	17589	30570	4.59	1.0E-111	K02268.1	NT	Human enkephalin B (enkeB) gene, exon 4 and 3' flank and complete cds
5593	18788	31835	0.75	1.0E-111	AA151017.1	EST_HUMAN	247007.1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:505045 5' similar to gb:M23575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
5593	18788	31836	0.76	1.0E-111	AA151017.1	EST_HUMAN	247007.1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:505045 5' similar to gb:M23575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
5749	18941	32242	0.88	1.0E-111	BE867908.1	EST_HUMAN	801443690F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3847655 5'
5802	19052	32359	0.86	1.0E-111	U18969.1	NT	Human two-handed zinc finger protein ZEB mRNA, partial cds
6156	19332	32678	2.09	1.0E-111	A1344870.1	EST_HUMAN	gp09g12.x1 NCL CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1917574 3' similar to gb:M29893 RAS-RELATED PROTEIN RAL-A (HUMAN);
6818	19971	33379	0.96	1.0E-111	AL040762.1	EST_HUMAN	DKFZp434G1815.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434G1815 5'
6945	20258	33697	1.31	1.0E-111	AW294648.1	EST_HUMAN	U1H-BW0-ai1-4-03-0-U1 st NCL CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729525 3'
7605	20675	34149	3.04	1.0E-111	BF366228.1	EST_HUMAN	IL2-NT0101-280700-114-E03 NT0101 Homo sapiens cDNA
7704	20769	34254	0.7	1.0E-111	A1761228.1	EST_HUMAN	w188401.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398465 3' similar to gb:J04813 CYTOCHROME P450 IIA6 (HUMAN);
7791	20847	34340	0.83	1.0E-111	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
8286	21368	34888	0.8	1.0E-111	AA278888.1	EST_HUMAN	zs79g03.r1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
8286	21368	34889	0.8	1.0E-111	AA278888.1	EST_HUMAN	G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR ;
8383	21464	34989	0.63	1.0E-111	11431896	NT	zs79g03.r1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
8435	21516	35047	3.56	1.0E-111	U66533.1	NT	Homo sapiens protein x 0007 (LOC51185), mRNA
8878	21957	35492	0.96	1.0E-111	11420516	NT	Human beta4-integrin (ITGB4) gene, exon 13
8975	22054	35597	0.84	1.0E-111	AK024453.1	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
9008	22087		8.43	1.0E-111	BF214902.1	EST_HUMAN	Homo sapiens mRNA for FLJ00045 protein, partial cds
9085	22164	35703	15.93	1.0E-111	X17033.1	NT	801847132F1 NIH_MGC 55 Homo sapiens cDNA clone IMAGE:4076303 5'
9085	22164	35709	15.93	1.0E-111	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
9289	22365	35914	3.37	1.0E-111	AF091395.1	NT	Human mRNA for integrin alpha-2 subunit
9518	22583	36152	0.54	1.0E-111	BF333210.1	EST_HUMAN	Homo sapiens Trio isoform mRNA, complete cds
							QV2-BT0817-270900-398-e06 BT0817 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10355	23980	37000	1.56	1.0E-111	AA504160.1	EST_HUMAN	ae55g02.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:625170 3' similar to gb:L08235
10353	23418		1.04	1.0E-111	D10083.1	NT	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);
10479	23514	37127	5.58	1.0E-111	AA131248.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
10895	24074	37707	1.34	1.0E-111	AW293487.1	EST_HUMAN	213101.1 Sources: pregnant uterus, NibHPU Homo sapiens cDNA clone IMAGE:503545 5'
11299	24365	38006	3.29	1.0E-111	U68159.1	NT	U1-H-BW0-aig-d-07-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2730276 3'
12167	25130	38826	4.07	1.0E-111	11417801	NT	Human thrombopoietin receptor (MPL) gene, exons 1,2,3,4,5 and 6
12741	25492	32026	4.72	1.0E-111	AV708482.1	EST_HUMAN	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MNT), mRNA
12881	25988	31855	4.82	1.0E-111	W22562.1	EST_HUMAN	AV708482 ADC Homo sapiens cDNA clone ADCAOB08 5'
13041	18504	31639	1.27	1.0E-111	AB035356.1	NT	72C9 Human retina cDNA Tsp509I-cleaved sublibrary Homo sapiens cDNA not directional
623	13803	26829	2.77	1.0E-112	4501864	NT	Homo sapiens mRNA for neurixin 1-alpha protein, complete cds
625	13810	26831	4.84	1.0E-112	U29103.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
625	13810	26832	4.84	1.0E-112	U29103.1	NT	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
649	13834	26860	1.82	1.0E-112	BF509038.1	EST_HUMAN	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
649	13834	26861	1.82	1.0E-112	BF509039.1	EST_HUMAN	U1-H-B14-aot-g-04-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
1026	14167	27255	33.08	1.0E-112	AF157623.1	NT	U1-H-B14-aot-g-04-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
1037	14253	27308	1.49	1.0E-112	P52742	SWISSPROT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1718	14868	27958	7.1	1.0E-112	7862125	NT	ZINC FINGER PROTEIN 135
1718	14868	27959	7.1	1.0E-112	7862125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
1863	15008	28115	1.11	1.0E-112	AF248540.1	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2577	15703	28823	2.83	1.0E-112	BE809859.1	EST_HUMAN	Homo sapiens intersecin 2 (SH3D1B) mRNA, complete cds
3147	16323		0.78	1.0E-112	4504116	NT	Homo sapiens intersecin 2 (SH3D1B) mRNA, complete cds
3444	16612	29630	0.61	1.0E-112	AB26511.1	EST_HUMAN	601442674F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846858 5'
3990	17147	30153	0.63	1.0E-112	BE076073.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4728	17861	30843	0.68	1.0E-112	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4875	18007	30890	5.87	1.0E-112	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
4875	18007	30891	5.87	1.0E-112	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
5784	18976	32282	36.7	1.0E-112	N46046.1	EST_HUMAN	y35d07.r1 Sources: melanocytes 2N5HM Homo sapiens cDNA clone IMAGE:273229 5'
6201	19376	32727	1.33	1.0E-112	AF148773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6273	19447	32705	0.68	1.0E-112	AW502437.1	EST_HUMAN	U1-HF-BR0p-ajls-g-06-0-U1.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3075658 5'
6273	19447	32706	0.68	1.0E-112	AW502437.1	EST_HUMAN	U1-HF-BR0p-ajls-g-06-0-U1.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3075658 5'
6378	19548	32804	0.93	1.0E-112	BE741666.1	EST_HUMAN	801594717F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948657 5'
6568	19749	33102	0.7	1.0E-112	BF672815.1	EST_HUMAN	602152849F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4283420 5'

Table 4

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6773	19928	33323	0.83	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
6773	19928	33324	0.83	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
6981	20209	33637	1.51	1.0E-112	BF574235.1	EST_HUMAN	602131403F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5'
7305	20387	33847	0.68	1.0E-112	AL043299.1	EST_HUMAN	DKFZp434M0523_J1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434M0523 5'
7491	20566	34037	1.49	1.0E-112	11416777	NT	Homo sapiens solute carrier family 8 (neurotransmitter transporter, L-proline), member 7 (SLC8A7), mRNA
7491	20566	34038	1.49	1.0E-112	11416777	NT	Homo sapiens solute carrier family 8 (neurotransmitter transporter, L-proline), member 7 (SLC8A7), mRNA
8387	21468	34995	1.79	1.0E-112	AU118051.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5'
9158	22236	35781	2.64	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
9158	22236	35782	2.64	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
10097	23135	36736	2.37	1.0E-112	BF111413.1	EST_HUMAN	730g07.x1 Soares_NSF_F8_9W_OT_PA_P_31 Homo sapiens cDNA clone IMAGE:3623020 3' similar to
11017	24090	37735	16.73	1.0E-112	AW863327.1	EST_HUMAN	TR:Q9VW35 Q9VW35 CG8743 PROTEIN ;
11103	24175	37810	1.31	1.0E-112	T93967.1	EST_HUMAN	MR3-SN0009-100400-106-b12 SN0009 Homo sapiens cDNA
11103	24175	37811	1.31	1.0E-112	T93967.1	EST_HUMAN	SP:C40H1.1 CE00109 OVARIAN PROTEIN ;
11191	24260	37896	3.14	1.0E-112	AJ249800.1	NT	Y156d10.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:112243 3' similar to
11359	24421	38077	2.24	1.0E-112	BE280479.1	EST_HUMAN	SP:C40H1.1 CE00109 OVARIAN PROTEIN ;
11428	24489	38153	2.28	1.0E-112	AI792603.1	EST_HUMAN	Homo sapiens mRNA for secreted modular calcium-binding protein (smoc1 gene)
11428	24489	38154	2.28	1.0E-112	AI792603.1	EST_HUMAN	601155323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:318989 5'
11460	24519	38188	4.78	1.0E-112	AW377670.1	EST_HUMAN	qk24c08.y6 NCL_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362
12096	25076	38783	1.66	1.0E-112	AI792603.1	EST_HUMAN	FUSED TOES ;
12096	25076	38784	1.66	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y6 NCL_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362
12727	25484	26987	1.31	1.0E-112	AF106856.1	NT	FUSED TOES ;
761	13942	26987	6.82	1.0E-113	AI395586.1	EST_HUMAN	Homo sapiens adenylosuccinate lyase gene, complete cds
761	13942	26988	6.82	1.0E-113	AI395586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
965	14138	27199	2.93	1.0E-113	M11695.1	NT	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
1572	14725	27805	3.23	1.0E-113	AI395586.1	EST_HUMAN	Human X-linked phosphoglycerate kinase gene, exon 8
1572	14725	27805	3.23	1.0E-113	AI395586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1993	18694	28240	1.63	1.0E-113	AF240776.1	NT	Homo sapiens aIF4E-transporter mRNA, complete cds
2161	15297	28422	1.49	1.0E-113	BF515218.1	EST_HUMAN	U1H-BW1-ant-f-03-Q-U1 st NCL CGAP Sub7 Homo sapiens cDNA clone IMAGE:3082878 3'
3200	16375	29385	2.06	1.0E-113	AJ223948.1	NT	Homo sapiens mRNA for putative RNA helicase, 3' end
5178	18300	31263	36.66	1.0E-113	5463562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5178	18300	31264	36.66	1.0E-113	5463562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5359	23930		2.4	1.0E-113	BE780858.1	EST_HUMAN	601469465F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3872536 5'
6610	18805	31870	6.37	1.0E-113	AU127214.1	EST_HUMAN	AU127214 NT2RP2 Homo sapiens cDNA clone NT2RP2000807 5'
6046	19226	32562	3.64	1.0E-113	AU140291.1	EST_HUMAN	AU140291 PLACE2 Homo sapiens cDNA clone PLACE2000274 5'
6072	19264	32883	1.02	1.0E-113	AF016835.1	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6195	19371	32722	2.57	1.0E-113	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 8 (GALNAc-T8) (GALNT8), mRNA
6285	19458	32808	0.8	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6285	19458	32810	0.8	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA
6446	19613	32976	0.68	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
6446	19613	32977	0.68	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7474	20549	34021	0.63	1.0E-113	BE282161.1	EST_HUMAN	601162078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5'
7474	20549	34022	0.63	1.0E-113	BE282161.1	EST_HUMAN	601162078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5'
9083	22172	35717	0.5	1.0E-113	8822819	NT	Homo sapiens hypothetical protein FLJ11008 (FLJ11008), mRNA
9296	22372	35921	2.91	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3827554 5'
9296	22372	35922	2.91	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3827554 5'
9801	22866		0.62	1.0E-113	BE772967.1	EST_HUMAN	RC1-F10134-280600-021-402 F10134 Homo sapiens cDNA
10036	23074	36674	1.27	1.0E-113	11423367	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
10256	23291	36888	1.01	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10256	23291	36889	1.01	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10842	23876	37466	0.47	1.0E-113	AW500517.1	EST_HUMAN	U1-HF-BNO-ak-B-10-0-U1.H NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077322 5'
11385	24446	38107	1.89	1.0E-113	AW500519.1	EST_HUMAN	U1-HF-BNO-ak-B-12-0-U1.H NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077326 5'
11398	24457	38119	5.42	1.0E-113	AW630291.1	EST_HUMAN	h181409.Y1 NCL CGAP_GUT Homo sapiens cDNA clone IMAGE:2868178 5' similar to TR:080327 080327 KIAA0584 PROTEIN ;
11398	24457	38120	6.42	1.0E-113	AW630291.1	EST_HUMAN	h181409.Y1 NCL CGAP_GUT Homo sapiens cDNA clone IMAGE:2868178 5' similar to TR:080327 080327 KIAA0584 PROTEIN ;
11840	24596	38272	2.91	1.0E-113	BE282968.1	EST_HUMAN	601105529F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988366 5'
59	13297	26314	0.75	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
59	13297	26315	0.76	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
59	13297	26316	0.75	1.0E-114	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
692	13848	26876	7.46	1.0E-114	T70551.1	EST_HUMAN	yt15c01.s1 Scores fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:108288 3' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN); contains Alu repetitive element;
1096	14261	27318	2.54	1.0E-114	8923087	NT	Homo sapiens hypopharyngeal protein FLJ20080 (FLJ20080), mRNA
1341	14497	27569	4.65	1.0E-114	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1673	14825	27909	1.9	1.0E-114	6631084	NT	Homo sapiens minichromosome maintenance deficient (S. cerevisiae) 3 (MCM3), mRNA
1706	14858	27945	5.08	1.0E-114	6879073	NT	Homo sapiens nucleoporin-like protein 1 (NLP_1), mRNA
2145	15281	28406	2.52	1.0E-114	BE171894.1	EST_HUMAN	MRQ-HT0559-250200-002-407 HT0559 Homo sapiens cDNA
2330	15462	28695	0.99	1.0E-114	AB002374.1	NT	Human mRNA for KIAA0876 gene, partial cds
2865	13283	26290	0.6	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3201	16376	28386	2.6	1.0E-114	X04086.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3240	16414	29429	1.03	1.0E-114	BF206374.1	EST_HUMAN	Human gene for catalase (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13
4124	17278	30275	3.27	1.0E-114	AF14973.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4510	17849	30837	0.7	1.0E-114	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds
5282	18401	31370	1.1	1.0E-114	AW294203.1	EST_HUMAN	UH-H12-aho-0-01-Q-U1.s1 NCI_CGAP SUB4 Homo sapiens cDNA clone IMAGE:2726424 3'
5616	18714	31727	1.68	1.0E-114	4506880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5616	18714	31728	1.68	1.0E-114	4506880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5712	18805	32200	0.9	1.0E-114	9257201	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), transcript variant 2, mRNA
7224	20088		0.71	1.0E-114	AB041533.1	NT	Homo sapiens HCMOGT-1 mRNA for sperm antigen, complete cds
7388	20466	33931	1.09	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7388	20466	33932	1.09	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7434	20511	33983	8.2	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7434	20511	33984	8.2	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
8075	21157	34675	1.94	1.0E-114	4557600	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
8360	21441	34963	1.85	1.0E-114	AI363139.1	EST_HUMAN	qy68a06.x1 NCI_CGAP Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8360	21441	34964	1.85	1.0E-114	AI363139.1	EST_HUMAN	qy68a06.x1 NCI_CGAP Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8898	21977	35515	2.99	1.0E-114	U63041.1	NT	Human neural cell adhesion molecule CD55 mRNA, complete cds
8966	22045	35589	5.81	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
8966	22045	35590	5.81	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9384	22459	36022	0.87	1.0E-114	BF109832.1	EST_HUMAN	7189g12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3526847 3' similar to
11466	22669		1.3	1.0E-114	AW327465.1	EST_HUMAN	TR:Q8JHN6 Q8JHN6 TRANSMEMBRANE PROTEIN 2 ;
9602	21104	34621	2.67	1.0E-114	AF077754.1	NT	q03605.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
9748	22812		1.36	1.0E-114	MT3538.1	NT	Homo sapiens tyrosine kinase pp60-c-src (SRC) gene, exon 12 and partial cds
10343	23378	36989	1.02	1.0E-114	BE870004.1	EST_HUMAN	Human ceruloplasmin mRNA
10364	23399	37010	1.11	1.0E-114	AL163227.2	NT	601449752F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853500 5'
10762	23785	37419	1.18	1.0E-114	BE171984.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C027
							MRO-HT0559-250200-002-c07 HT0559 Homo sapiens cDNA
11027	24106		4.31	1.0E-114	BE302866.1	EST_HUMAN	ba73g12.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2906086 5' similar to gb:U17206 40S
11466	24525	38197	8.11	1.0E-114	AV733454.1	EST_HUMAN	RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element,
11466	24525	38198	8.11	1.0E-114	AV733454.1	EST_HUMAN	complete (MOUSE);
11842	24631	38522	6.28	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
11842	24631	38523	6.28	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
12643	26187		4.63	1.0E-114	11418041	NT	AV733454 cda Homo sapiens cDNA clone cdABA08 5'
12936	25616	31975	2.75	1.0E-114	11034850	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12936	25616	31976	2.75	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
24	13262	26264	3.06	1.0E-115	4758111	NT	Homo sapiens HLA-B associated transcript-1 (D6S81E) mRNA
132	13358	26391	1.09	1.0E-115	4909938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
136	13362		18.42	1.0E-115	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
303	13519	28552	2.02	1.0E-115	AW804759.1	EST_HUMAN	QV4-UM0094-300300-166-b08 UM0094 Homo sapiens cDNA
							q0601.x1 NCI_CGAP GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:O00536 O00536
549	13742	26766	1.68	1.0E-115	A1339206.1	EST_HUMAN	TTF-1 INTERACTING PEPTIDE 5 ;
549	13742	26767	1.68	1.0E-115	A1339206.1	EST_HUMAN	TTF-1 INTERACTING PEPTIDE 5 ;
809	13988	27041	3	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
809	13988	27042	3	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
811	13990	27044	15.24	1.0E-115	4503784	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1590	14742	27823	1.15	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1590	14742	27824	1.15	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1898	15032	28140	1.31	1.0E-115	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein
2142	15278	28400	1.13	1.0E-115	BE745469.1	EST_HUMAN	(L44L) and FTP3 (FTP3) genes, complete cds
							601579838F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928632 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2142	15278	28401	1.13	1.0E-115	BE745489.1	EST_HUMAN	601579838F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3928832 5'
2150	15286	28411	1.1	1.0E-115	AB007902.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
2374	15505	28631	1.11	1.0E-115	AF231124.1	NT	Homo sapiens testican-1 mRNA, complete cds
2912	15080		1.03	1.0E-115	AW804759.1	EST_HUMAN	QV4-UM0094-300300-165-b08 UM0094 Homo sapiens cDNA
3184	15359	29365	2.88	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3184	16359	29366	2.88	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3561	16726	29742	1.8	1.0E-115	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
4163	17305	30299	4.2	1.0E-115	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4521	17660	30647	2.49	1.0E-115	6912659	NT	Homo sapiens sir2-like 3 (SIRT3), mRNA
4557	17695	30874	4.28	1.0E-115	4768279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4797	17832	30918	2.86	1.0E-115	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4797	17832	30919	2.86	1.0E-115	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
5028	18155	31132	2.99	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
5028	18155	31133	2.99	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
5044	18172	31149	1.01	1.0E-115	Y18215.1	NT	Homo sapiens putative psfHbC pseudogene for hair keratin, exons 1 to 9
5304	18421	31391	1.23	1.0E-115	4504698	NT	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA
5347	18460	31425	0.92	1.0E-115	AB018311.1	NT	Homo sapiens mRNA for KIAA0768 protein, partial cds
5463	18663	31642	2.8	1.0E-115	AW970395.1	EST_HUMAN	EST382418 IMAGE resequences, MAGK Homo sapiens cDNA
5540	18737	31754	0.97	1.0E-115	BF665387.1	EST_HUMAN	602119346F1 NIH_MGC 58 Homo sapiens cDNA clone IMAGE:4276738 5'
5559	18853	32135	1.74	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5559	18853	32137	1.74	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5808	18998	32304	1.15	1.0E-115	A1928799.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb:LO7807
5808	18998	32305	1.15	1.0E-115	A1928799.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb:LO7807
6391	19560	32919	0.68	1.0E-115	11426788	NT	Homo sapiens sperm surface protein (HSS), mRNA
6391	19560	32920	0.68	1.0E-115	11426788	NT	Homo sapiens sperm surface protein (HSS), mRNA
6525	19690	33064	9.49	1.0E-115	11426038	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63436), mRNA
6858	19817	33204	1.68	1.0E-115	7661893	NT	Homo sapiens KIAA0054 gene product: Helicase (KIAA0054), mRNA
6858	19817	33205	1.68	1.0E-115	7661893	NT	Homo sapiens KIAA0054 gene product: Helicase (KIAA0054), mRNA
7074	20127	33543	0.75	1.0E-115	T86774.1	EST_HUMAN	yd88b08.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115095 5' similar to SP.DPOG YEAST P15801 DNA POLYMERASE GAMMA;
7428	20505	33975	1.24	1.0E-115	A1076598.1	EST_HUMAN	oz31a05.x1 Soares total_fetus_Nb2HF8_gw Homo sapiens cDNA clone IMAGE:1676914 3'
7428	20505	33976	1.24	1.0E-115	A1076598.1	EST_HUMAN	oz31a06.x1 Soares total_fetus_Nb2HF8_gw Homo sapiens cDNA clone IMAGE:1676914 3'

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Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7246	20329	33775	1	1.0E-118	AL043761.1	EST_HUMAN	DKFZp434O0127_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434O0127 5'
7776	20833	34324	4.7	1.0E-118	11431050	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7760	20846	34339	0.72	1.0E-118	L46590.1	NT	Homo sapiens very long chain acyl-CoA dehydrogenase gene, exons 1-20, complete cds
8159	21241	34761	1.95	1.0E-118	BE781223.1	EST_HUMAN	601469159F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872247 5'
8577	21658	35198	7	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0283-090200-097-H03 BT0283 Homo sapiens cDNA
8577	21658	35199	7	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0283-090200-097-H03 BT0283 Homo sapiens cDNA
8583	21684	35204	1.1	1.0E-118	AA443024.1	EST_HUMAN	z98cd07_r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
8583	21684	35205	1.1	1.0E-118	AA443024.1	EST_HUMAN	z98cd07_r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
8873	21952	35488	0.94	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8873	21952	35489	0.94	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8918	21997	35536	1.94	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8918	21997	35537	1.94	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
9238	22313	35855	5.15	1.0E-118	BE263134.1	EST_HUMAN	801144863F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160502 5'
9266	22343	35894	0.55	1.0E-118	AL048474.2	EST_HUMAN	DKFZp586K1824_r1 886 (synonym: hule1) Homo sapiens cDNA clone DKFZp586K1824
9792	22832	36411	1.07	1.0E-118	7687018	NT	Homo sapiens hypothetical protein (DJ328E19.C1.1), mRNA
10541	23576	37184	1.23	1.0E-118	BE736213.1	EST_HUMAN	601307146F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3641803 5'
10541	23576	37185	1.23	1.0E-118	BE736213.1	EST_HUMAN	601307146F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3641803 5'
10586	23621	37228	1.75	1.0E-118	BF195407.1	EST_HUMAN	7n17609.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3594785 3' similar to SW:ZP3A_HUMAN
10752	23785	37399	0.59	1.0E-118	AW286351.1	EST_HUMAN	P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR ;
11555	24610	38290	3.75	1.0E-118	AA315007.1	EST_HUMAN	UHH-BW0-alc-a-07-0-J1.st NCI_CGAP_Sub66 Homo sapiens cDNA clone IMAGE:2728772 3'
11855	24843	38539	2.92	1.0E-118	BE908676.1	EST_HUMAN	chain 1, cytoplasmic
11855	24843	38540	2.92	1.0E-118	BE908676.1	EST_HUMAN	EST186814 HCC cell line (maternalis to liver in mouse) II Homo sapiens cDNA 5' end similar to dynein, light
12071	25032	38761	1.81	1.0E-118	BE218235.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
776	13956	27007	2.46	1.0E-119	AF170492.1	NT	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
1082	16029	27284	0.93	1.0E-119	7705607	NT	hV36a06.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3179474 3' similar to TR:Q922H4
1987	15128	28232	2.66	1.0E-119	AB023147.1	NT	Q922H4 G PROTEIN-COUPLED RECEPTOR LGRA.1 ;
3171	16348	29353	1.01	1.0E-119	8922205	NT	Homo sapiens mRNA for KIAA0930 protein, partial cds
3312	16485		2.17	1.0E-119	AA916760.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10052 (FLJ10052), mRNA
4063	17219	30227	1.22	1.0E-119	4504116	NT	on10b05.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1556241 3' similar to WP:E04F6.2
5453	18653	31632	3.96	1.0E-119	AU133399.1	EST_HUMAN	CS01214 ;
							Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
							AU133399 NT2RP4 Homo sapiens cDNA clone NT2RP4001891 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5466	18668	31846	16.48	1.0E-119	M89914.1	NT	Human neurofibromin (NF1) gene, complete cds
5470	18670	31850	3.29	1.0E-119	BE936121.1	EST_HUMAN	RC1-NN0073-250800-018-g08 NN0073 Homo sapiens cDNA
5550	18747	31782	1.61	1.0E-119	AV683731.1	EST_HUMAN	AV683731 GKG Homo sapiens cDNA clone GKCDH803 5'
5707	18900	32194	0.86	1.0E-119	AL134803.1	EST_HUMAN	DKFp762M0710_11762 (synonym: hmel2) Homo sapiens cDNA clone DKFp762M0710 5'
5707	18900	32195	0.86	1.0E-119	AL134803.1	EST_HUMAN	DKFp762M0710_11762 (synonym: hmel2) Homo sapiens cDNA clone DKFp762M0710 5'
6255	19429	32775	6.7	1.0E-119	AI150703.1	EST_HUMAN	gb77c09.x1 Soares fetal heart NbhH19W Homo sapiens cDNA clone IMAGE:1708128 3' similar to SW/K1CJ_MOUSE P02555 KERATIN, TYPE I CYTOSKELETAL 10 ;
6414	19583	32844	0.71	1.0E-119	AF315683.1	NT	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6414	19583	32845	0.71	1.0E-119	AF315683.1	NT	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6461	19628	32889	1.22	1.0E-119	AK478732.1	EST_HUMAN	fm23f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157451 3'
6589	19750	33133	2.39	1.0E-119	X06292.1	NT	Human c-fos/fps proto-oncogene
6601	19761	33149	4.01	1.0E-119	AW974193.1	EST_HUMAN	EST386296 IMAGE resequences, MAGM Homo sapiens cDNA
7538	20640	34116	1.09	1.0E-119	BE796814.1	EST_HUMAN	601592005F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3948081 5'
8862	21941	35476	0.93	1.0E-119	BE615150.1	EST_HUMAN	601280564F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622826 5'
9657	22606	36592	0.46	1.0E-119	11545921	NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5) mRNA
10111	23149	36750	0.96	1.0E-119	11036643	NT	Homo sapiens KIAA0477 gene product (KIAA0477) mRNA
10311	23346	36952	0.61	1.0E-119	AI149796.1	EST_HUMAN	qf43a11.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1762764 3' similar to TR:Q13458
10452	23487	37095	2.29	1.0E-119	AA465124.1	EST_HUMAN	Q13458 GUANINE NUCLEOTIDE EXCHANGE FACTOR PROTEIN TRIO. ;
10722	23755	37361	1.13	1.0E-119	AJ297701.1	NT	aas3205.t1 NCLCGAP_GCB1 Homo sapiens cDNA clone IMAGE:814977 5'
10766	23799	37420	0.77	1.0E-119	11425837	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10766	23799	37421	0.77	1.0E-119	11425837	NT	Homo sapiens hypothetical protein FLJ10206 (FLJ10206) mRNA
10844	23877	37497	0.59	1.0E-119	BE561987.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10206 (FLJ10206) mRNA
10849	23882	37602	0.73	1.0E-119	AB032261.1	NT	601347190F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687887 5'
11308	24373	38015	1.58	1.0E-119	AJ297701.1	NT	Homo sapiens Scd mRNA for stearoyl-CoA desaturase, complete cds
11308	24373	38016	1.58	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
11479	24538		6.62	1.0E-119	BF569571.1	EST_HUMAN	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
12490	26098		5.48	1.0E-119	AW847519.1	EST_HUMAN	602186072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310633 5'
12645	26882		3.03	1.0E-119	X89211.1	NT	RC3-CT0212-240998-011-f03 CT0212 Homo sapiens cDNA
247	13468	28500	0.68	1.0E-120	AB018301.1	NT	H. sapiens DNA for endogenous retroviral like element
312	13628	28561	0.97	1.0E-120	4607334	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
1066	14232	27290	2.74	1.0E-120	AF248540.1	NT	Homo sapiens synaptotagmin 1 (SYNJ1) mRNA
1066	14232	27291	2.74	1.0E-120	AF248540.1	NT	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
1456	14609	27689	3.26	1.0E-120	N44873.1	EST_HUMAN	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
							y940g12.t1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:273766 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1631	14783	27889	11.19	1.0E-120	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
1849	14995	28098	6.58	1.0E-120	4557250	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
2174	15309	28437	1.83	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
2174	15309	28438	1.83	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
3382	13528	28561	1.81	1.0E-120	4507334	NT	Homo sapiens synaptobrevin 1 (SYN1), mRNA
4477	17617	30589	2.05	1.0E-120	AF058490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4784	17918	30908	3.11	1.0E-120	AF098463.1	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
4784	17918	30907	3.11	1.0E-120	AF098463.1	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
5853	19043	32349	16.08	1.0E-120	BF568222.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
5853	19043	32350	16.08	1.0E-120	BF568222.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
7146	20808	34285	1.84	1.0E-120	D34619.1	NT	Human TEXAS1 gene for thromboxane synthase, exon 7
8078	21160	34677	1.38	1.0E-120	Y00087.1	NT	Human gene for neurofilament subunit M (NF-M)
8527	21608	35147	2.31	1.0E-120	BF337598.1	EST_HUMAN	602035352F1 NCI_CGAP_Bim84 Homo sapiens cDNA clone IMAGE:4183333 5'
8599	21680	35219	0.9	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8603	21684	35221	1.94	1.0E-120	AB007964.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8603	21684	35222	1.94	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8647	21727	35264	1.31	1.0E-120	AB007934.1	NT	Homo sapiens mRNA for KIAA0465 protein, partial cds
9701	22790	36319	4.67	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625644 5'
9701	22790	36320	4.67	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625644 5'
9946	22885	36578	3.54	1.0E-120	BF506541.1	EST_HUMAN	601888956F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122878 5'
9962	23001	36697	6.7	1.0E-120	AU133205.1	EST_HUMAN	AU133205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'
9978	23018	36612	1.02	1.0E-120	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10066	23134	36918	0.55	1.0E-120	AB04151.1	EST_HUMAN	CM-BT043-080289-076 BT043 Homo sapiens cDNA
10281	23316	36918	3.4	1.0E-120	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
11391	24452	38115	8.66	1.0E-120	BE286387.1	EST_HUMAN	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'
11625	24705	38597	2.12	1.0E-120	BE867619.1	EST_HUMAN	601443135F1 NIH_MGC_35 Homo sapiens cDNA clone IMAGE:3847281 5'
11625	24705	38598	2.12	1.0E-120	BE867619.1	EST_HUMAN	601443135F1 NIH_MGC_35 Homo sapiens cDNA clone IMAGE:3847281 5'
12657	25436	32049	1.42	1.0E-120	Y18000.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
75	13311	26337	0.62	1.0E-121	Y18000.1	NT	Homo sapiens NF2 gene
368	13566	26631	1.35	1.0E-121	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1:000899 5'
742	16020	26984	1.31	1.0E-121	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2023	15164	28269	1	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
2023	15164	28270	1	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
2189	15304	28431	1.22	1.0E-121	L76631.1	NT	Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107KD (INPP4A), splice variant a, mRNA
2643	15766	28880	1.07	1.0E-121	BF344378.1	EST_HUMAN	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
2643	15766	28881	1.07	1.0E-121	BF344378.1	EST_HUMAN	602014759F1 NCL CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4150286 5'
3150	16325	29336	6.8	1.0E-121	Y19208.1	NT	602014759F1 NCL CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4150286 5'
3150	16325	29337	5.8	1.0E-121	Y19208.1	NT	Homo sapiens hHb3 gene for hair keratin, exons 1 to 9
3626	16790	29807	1.23	1.0E-121	AB037758.1	NT	Homo sapiens hHb3 gene for hair keratin, exons 1 to 9
3626	16790	29808	1.23	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3768	16929	29934	8.25	1.0E-121	AF155156.2	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
4450	17690	30571	1.76	1.0E-121	A1263204.1	EST_HUMAN	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds
5091	18219	31189	3.42	1.0E-121	X91637.1	NT	qx87601 x1 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2006417 3'
5382	18584	31453	0.84	1.0E-121	BE22250.1	EST_HUMAN	H. sapiens ECE-1 gene (exon 17)
5679	18873	32161	0.73	1.0E-121	BE271424.1	EST_HUMAN	hu09108.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166119 3'
6757	19913	33308	0.64	1.0E-121	M91463.1	NT	601140485F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049820 5'
7028	20164		0.96	1.0E-121	AJ271736.1	NT	Human glucose transporter (GLUT4) gene, complete cds
7102	18529	31483	0.79	1.0E-121	AW890986.1	EST_HUMAN	Homo sapiens Xq pseudautosomal region, segment 2/2
7102	18529	31484	0.79	1.0E-121	AW890986.1	EST_HUMAN	RC3-NN0066-270400-011-102 NN0066 Homo sapiens cDNA
8123	21205	34725	1.07	1.0E-121	11438217	NT	RC3-NN0066-270400-011-102 NN0066 Homo sapiens cDNA
8127	21208	34729	2.51	1.0E-121	D84122.1	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2), mRNA
8127	21209	34730	2.51	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
10062	23100	36702	1.02	1.0E-121	AW58358.1	EST_HUMAN	iso5g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR-O76457 O76457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA ;
10062	23100	36703	1.02	1.0E-121	AW58358.1	EST_HUMAN	iso5g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR-O76457 O76457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA ;
11015	24094	37733	3.45	1.0E-121	11427788	NT	Homo sapiens COX11 (yeast) homolog, cytochrome c oxidase assembly protein (COX11), mRNA
11023	24102	37740	1.94	1.0E-121	AF084200.1	NT	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E488 allele, complete cds
11211	24280	37919	5.74	1.0E-121	7390334	NT	Homo sapiens chloride intracellular channel 4 like (CLIC4L), mRNA
11243	24312	37950	1.93	1.0E-121	N59624.1	EST_HUMAN	y74c01.s1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:248448 3'
278	13496	26526	2.64	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
346	13557	26585	2.33	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
368	13577	28610	2.66	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
605	14030	27146	3.34	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN), complete cds
1247	14406	27468	5.19	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
1728	14878	27969	18.7	1.0E-122	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1750	14999	27995	1.61	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1750	14899	27998	1.61	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1857	15003	28110	6.92	1.0E-122	BE906024.1	EST_HUMAN	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899368 5'
2560	15685	28810	7.43	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2560	15685	28811	7.43	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2901	16080	29096	4.87	1.0E-122	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
4971	18100	31076	3.81	1.0E-122	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
5104	18232		1.41	1.0E-122	AW504645.1	EST_HUMAN	U1-HF-BN0-all-a-03-0-JUL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078048 5'
5681	18875	32164	1.2	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
6896	19875	32164	6.8	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
7363	20442	33604	0.64	1.0E-122	AA88671.1	EST_HUMAN	ak49h06.s1 Soares, testis_NHT Homo sapiens cDNA clone IMAGE:1409339 3'
8936	22075	35614	0.8	1.0E-122	AJ276801.1	NT	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMRT1)
9228	22306	35849	1.17	1.0E-122	11424216	NT	Homo sapiens lethal giant larvae (Drosophila) homolog 2 (LLGL2), mRNA
9524	22589	36159	0.96	1.0E-122	A1359818.1	EST_HUMAN	q32h07.x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1
9524	22589	36160	0.96	1.0E-122	A1359818.1	EST_HUMAN	q32h07.x1 NCL CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1
10398	23373	36983	0.64	1.0E-122	AL117234.1	NT	Novel human gene mapping to chromosome X, isoform of dsl (proto-oncogene)
11233	24302	37939	2.12	1.0E-122	AW065834.1	EST_HUMAN	ES1367804 MAGIE resequences, MAGD Homo sapiens cDNA
11667	24744	38436	1.83	1.0E-122	AB024068.1	NT	Homo sapiens gene for B120, exon 10
12231	25178		5.28	1.0E-122	11418187	NT	Homo sapiens phosphomannosylase 1 (PMM1), mRNA
789	13668	27018	1.53	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCL CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4153670 5'
789	13968	27020	1.53	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCL CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4153670 5'
1038	14208	27263	6.18	1.0E-123	AL163249.2	NT	Homo sapiens chromosome 21 segment H82T0049
1047	14213	27270	3.36	1.0E-123	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1267	14424	27491	3.83	1.0E-123	4605818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1267	14424	27492	3.83	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
2035	15176	28288	0.94	1.0E-123	11422479	NT	Homo sapiens similar to sex comb on midleg (Drosophila)-like 2 (H. sapiens) (LOC63782), mRNA
2166	15301	28427	3.21	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2166	15301	28428	3.21	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2166	15301	28429	3.21	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2389	15520		4.21	1.0E-123	770592	NT	Homo sapiens RAB9-like protein (LOC51209), mRNA
3322	16495	29512	0.71	1.0E-123	8912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA
5563	18760	31799	1.62	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
5563	18760	31800	1.62	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
5698	18893	32185	1.76	1.0E-123	BE799746.1	EST_HUMAN	801591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'
6598	19758	33146	1.93	1.0E-123	AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone HEMBA1003591 5'
7143	20278	33718	0.91	1.0E-123	H53198.1	EST_HUMAN	Y994603.1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:202444 5' similar to SP-YAK1_YEAST P14880 PROTEIN KINASE YAK1;
7156	20290	33733	1.39	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
7344	20424	33887	0.71	1.0E-123	U56258.1	NT	Human hBRAVOIN-CAM precursor (hBRAVOIN-CAM) gene, complete cds
7562	20634	34109	0.83	1.0E-123	11525833	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 2 (HS3ST2), mRNA
7820	20875	34374	1.31	1.0E-123	11436439	NT	Homo sapiens 2'-5'-oligoadenylate synthetase 2 (OAS2), mRNA
7829	20884	34386	2.22	1.0E-123	BE263001.1	EST_HUMAN	601152815F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509162 5'
7836	20891	34393	0.6	1.0E-123	11437202	NT	Homo sapiens hypothetical protein FLJ20184 (FLJ20184), mRNA
7975	21025	34538	0.6	1.0E-123	N35841.1	EST_HUMAN	Y939d11.1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:266917 5' similar to PIR:S49611
7975	21025	34539	0.6	1.0E-123	N35841.1	EST_HUMAN	S49611 protein kinase Pkpa - Phycorhizaceae blakealeanus;
8100	21182	34701	0.79	1.0E-123	AU131881.1	EST_HUMAN	Y939d11.1 Soares melanocyte 2N6HM Homo sapiens cDNA clone IMAGE:266917 5' similar to PIR:S49611
8100	21182	34702	0.79	1.0E-123	AU131881.1	EST_HUMAN	S49611 protein kinase Pkpa - Phycorhizaceae blakealeanus;
8132	21812		0.7	1.0E-123	AW371924.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
9569	22711	36279	2.07	1.0E-123	AB007923.1	NT	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
9705	22794	36325	16.77	1.0E-123	U09823.1	NT	RC4-BT0311-251199-012-e07 BT0311 Homo sapiens cDNA
12020	25004	38705	4.91	1.0E-123	BF677292.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
12020	25004	38706	4.91	1.0E-123	BF677292.1	EST_HUMAN	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabefia2) mRNA, complete cds
12114	26094	38798	2.71	1.0E-123	AW450931.1	EST_HUMAN	60208679 IF1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
12114	26094	38799	2.71	1.0E-123	AW450931.1	EST_HUMAN	60208679 IF1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
278	13497	26527	1.02	1.0E-124	4507600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
279	13497	26528	1.02	1.0E-124	4507600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
285	13503		1.49	1.0E-124	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
498	13593	26725	2.20	1.0E-124	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
709	13891	26928	4	1.0E-124	AA397561.1	EST_HUMAN	z81b04.1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
709	13891	26927	4	1.0E-124	AA397561.1	EST_HUMAN	G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
777	13957	27008	3.72	1.0E-124	AF155654.1	NT	Human putative ribosomal protein S1 mRNA
831	14009	27065	2.06	1.0E-124	4507600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
927	14102	27166	2.67	1.0E-124	7705446	NT	Homo sapiens ring finger protein (RNF), mRNA
1343	14499	27572	0.98	1.0E-124	11419092	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1377	14532	27605	6.42	1.0E-124	AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1377	14532	27606	6.42	1.0E-124	AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1858	15004	28111	4.06	1.0E-124	AJ131712.1	NT	Homo sapiens mRNA for nuclear RNA-helicase (nclH61 gene)
2123	15269	28378	2.16	1.0E-124	BE879524.1	EST_HUMAN	607491715F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3893954 5'
2628	15653	28777	0.98	1.0E-124	AB024099.1	NT	Homo sapiens gene for B120, exon 11
3570	16744	29761	1.06	1.0E-124	S78894.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3579	16744	29762	1.06	1.0E-124	S78894.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3739	16900	29904	1.24	1.0E-124	X13794.1	NT	H. sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and joined CDS)
4008	17163	30170	0.84	1.0E-124	4507600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4179	17329	30321	0.90	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4187	17337	30330	0.98	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4866	17899	30983	2.51	1.0E-124	AB024099.1	NT	Homo sapiens gene for B120, exon 11
5050	18178		15.32	1.0E-124	M18178.1	NT	Human fibronectin gene extra type III repeat (EDII), exon x+1
5205	18326	31298	0.74	1.0E-124	AW663390.1	EST_HUMAN	EST375463 MAGE resequences, MAGH Homo sapiens cDNA
5412	18614	31588	10.48	1.0E-124	8922337	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6789	18981	32284	1.2	1.0E-124	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
8008	19193	32511	6.89	1.0E-124	BF698135.1	EST_HUMAN	602124644F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'
6298	19471	32826	0.8	1.0E-124	AV711293.1	EST_HUMAN	AV711293 Cu Homo sapiens cDNA clone CuAADF07 5'
6563	18725	33103	1.12	1.0E-124	11420854	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila tet facets related) (USP9X), mRNA
7162	20286	33728	3.15	1.0E-124	Y11717.1	NT	Limulus mRNA for hoxa3 gene
7287	20370	33824	0.94	1.0E-124	BE271295.1	EST_HUMAN	600643771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2966585 5'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7287	20370	33825	0.94	1.0E-124	BE271295.1	EST_HUMAN	g0094377f1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2965685 5'
7725	20789	34278	2.38	1.0E-124	AJ630331.1	EST_HUMAN	ac08rh05.s1 Stratagene HeLa cell s3 937218 Homo sapiens cDNA clone IMAGE:855897 3'
8453	21834	35084	2.73	1.0E-124	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
8657	21737	35277	1.24	1.0E-124	AW612106.1	EST_HUMAN	hg94a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2853240 3' similar to TR:O95162 O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE. ;
8657	21737	35278	1.24	1.0E-124	AW612106.1	EST_HUMAN	hg94a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2853240 3' similar to TR:O95162 O95162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE. ;
9363	22438	35996	0.88	1.0E-124	AJ799864.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
9363	22438	35997	0.88	1.0E-124	AJ799864.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
9681	22740	36309	1.72	1.0E-124	AV645633.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCAC04 3'
9681	22740	36310	1.72	1.0E-124	AV645633.1	EST_HUMAN	AV645633 GLC Homo sapiens cDNA clone GLCAC04 3'
9808	22848	36426	7.77	1.0E-124	AJ767133.1	EST_HUMAN	wj83102.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
9808	22848	36427	7.77	1.0E-124	AJ767133.1	EST_HUMAN	wj83102.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
10075	23113	36717	1.46	1.0E-124	AJ937555.1	EST_HUMAN	UHF-BND-ezb-04-0-UJI NIH_MGC_60 Homo sapiens cDNA clone IMAGE:33078846 5'
11302	24368	38009	1.57	1.0E-124	U94778.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17
11617	24668	38356	3.9	1.0E-124	AW665663.1	EST_HUMAN	jij05c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2980906 3'
11761	23947	37575	2.18	1.0E-124	AJ446455.1	EST_HUMAN	yj19e03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31682 O31682 YKRS PROTEIN. ;
11761	23947	37576	2.18	1.0E-124	AJ446455.1	EST_HUMAN	yj19e03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31682 O31682 YKRS PROTEIN. ;
12310	13891	26926	4.6	1.0E-124	AA397551.1	EST_HUMAN	Z8B1004.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT). ;
12310	13891	26927	4.6	1.0E-124	AA397551.1	EST_HUMAN	Z8B1004.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT). ;
12780	25822	32004	1.99	1.0E-124	AB029016.1	NT	Homo sapiens rRNA for KIAA1093 protein, partial cds
13080	26038	31680	2.36	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
13080	26038	31681	2.36	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
329	13543	329	7.32	1.0E-125	AB032898.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
439	13239	26239	4.69	1.0E-125	BE743922.1	EST_HUMAN	G01577981f1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926885 5'
661	13847	26874	2.02	1.0E-125	AJ110956.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
661	13847	26875	2.02	1.0E-125	AJ110956.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
746	13927	26868	2.42	1.0E-125	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
883	14059	27124	1.45	1.0E-125	AA042813.1	EST_HUMAN	zkl3c07.s1 Soares_pregnant uterus NHrPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HOMP07E (HUMAN).

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1023	14194	27262	1.54	1.0E-125	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1177	14340	27384	1.73	1.0E-125	7682276	NT	Homo sapiens KIAA0744 gene product; histone desacetase 7 (KIAA0744), mRNA
1707	16045	27946	1.44	1.0E-125	7681687	NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
1854	15000	28106	5.91	1.0E-125	AF015450.1	NT	Homo sapiens Usurin-alpha mRNA, complete cds
1854	15000	28107	5.91	1.0E-125	AF015450.1	NT	Homo sapiens Usurin-alpha mRNA, complete cds
2433	15581	28687	4.81	1.0E-125	AA011278.1	EST_HUMAN	Z01G09J7 Soares_fetal_liver_spleen_1INFLS_S1 Homo sapiens cDNA clone IMAGE:429588 5'
2573	15698	28820	0.96	1.0E-125	AA042813.1	EST_HUMAN	z63c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to
2661	15783	28898	2.34	1.0E-125	4504696	NT	gb:X65957.cd1 OLFATORY RECEPTOR-LIKE PROTEIN HGMPO7E (HUMAN);
2661	15783	28899	2.34	1.0E-125	4504696	NT	Homo sapiens inhibin, alpha (INH) mRNA
3061	17119	30123	1.33	1.0E-125	AA042813.1	EST_HUMAN	Homo sapiens inhibin, alpha (INH) mRNA
4872	17807	30796	1.82	1.0E-125	11425114	NT	z63c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to
4872	17807	30797	1.82	1.0E-125	11425114	NT	gb:X65957.cd1 OLFATORY RECEPTOR-LIKE PROTEIN HGMPO7E (HUMAN);
4739	17874	30837	0.85	1.0E-125	BE315412.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5877	19067	32376	0.65	1.0E-125	BF683645.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
5894	18179	32601	1.39	1.0E-125	11436448	NT	601141152F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140786 5'
6013	19107	32614	1.2	1.0E-125	BE175169.1	EST_HUMAN	602139874F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4300770 5'
6054	19236	32681	3.53	1.0E-125	BE892660.1	EST_HUMAN	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
6058	19277	32608	0.85	1.0E-125	AI079904.1	EST_HUMAN	QV2-HT0577-010500-165-506 HT0577 Homo sapiens cDNA
6412	19581	32942	0.72	1.0E-125	BE736055.1	EST_HUMAN	601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918932 5'
6711	19869	33269	3.71	1.0E-125	BE662526.1	EST_HUMAN	tu87c07.x1 NC1_CGAP_Ges4 Homo sapiens cDNA clone IMAGE:2256108 3' similar to WP:049G9.2
6711	19869	33269	3.71	1.0E-125	BE662526.1	EST_HUMAN	CE01854
7207	20072	33483	4.08	1.0E-125	X03427.1	NT	601305070F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3640097 5'
7207	20072	33483	4.08	1.0E-125	X03427.1	NT	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689780 5'
7700	20768	34249	1.56	1.0E-125	BE276823.1	EST_HUMAN	601335826F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3689780 5'
7833	20893	34481	0.59	1.0E-125	11425572	NT	Homo sapiens IGF-II gene, exon 5
8743	21822	35357	1.49	1.0E-125	U60288.1	NT	Homo sapiens IGF-II gene, exon 5
8743	21822	35358	1.49	1.0E-125	U60288.1	NT	Homo sapiens IGF-II gene, exon 5
8918	22364	35945	4.15	1.0E-125	BE181640.1	EST_HUMAN	601159076F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505603 5'
8918	22364	35946	4.15	1.0E-125	BE181640.1	EST_HUMAN	601159076F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505603 5'
							Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
							Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
							Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10
							QV1-HT0638-070500-191-312 HT0638 Homo sapiens cDNA
							QV1-HT0638-070500-181-412 HT0638 Homo sapiens cDNA

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9581	22723	36293	1.06	1.0E-125	AI565998.1	EST_HUMAN	tn52b03.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2171981 3' similar to TR:Q14089 Q14089
10870	23704	37313	0.72	1.0E-125	BE794578.1	EST_HUMAN	HYPOTHETICAL PROTEIN;
10712	23745	37351	1.06	1.0E-125	AB000228.1	NT	601590345F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3944531 5'
10821	24004	37639	3.03	1.0E-125	AF043458.1	NT	Human mRNA for KIAA0300 gene, partial cds
11091	24165	37602	1.34	1.0E-125	11425570	NT	Homo sapiens RRE1 gene, exon 5
11357	24419	38078	2.42	1.0E-125	AL040555.1	EST_HUMAN	Homo sapiens RYR1 (skeletal) (RYR1), mRNA
11401	24482	38126	3.35	1.0E-125	AB014567.1	NT	DKFZp434N2414.1 434 (synonym: hles3) Homo sapiens cDNA clone DKFZp434N2414 5'
11538	24594	38303	1.83	1.0E-125	R01450.1	EST_HUMAN	Homo sapiens mRNA for KIAA0667 protein, partial cds
11568	24623	38303	2.13	1.0E-125	766505	NT	Y15a12.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:37663 5'
11875	24630	38309	5.32	1.0E-125	AF026029.1	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
11686	24685	38375	2.27	1.0E-125	AW812893.1	EST_HUMAN	Homo sapiens poly(A) binding protein II (PABP2) gene, complete cds
11793	24763	38479	4.71	1.0E-125	BE074267.1	EST_HUMAN	RC3-STO185-250200-018-c11 ST0185 Homo sapiens cDNA
11793	24763	38480	4.71	1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
795	13974	27027	2.16	1.0E-126	4758007	NT	QV3-BT0569-020200-075-g09 BT0569 Homo sapiens cDNA
798	13977	27030	1.74	1.0E-126	IM61939.1	NT	Homo sapiens CDC-like kinase (CLK) mRNA
942	14116	27175	1.53	1.0E-126	X68735.1	NT	Human laminin B1 chain gene, exon 20
2663	15785	28900	4.55	1.0E-126	6382078	NT	H. sapiens gene for alpha1-antichymotrypsin, exon 3
3140	16316	29329	8.12	1.0E-126	AA160709.1	EST_HUMAN	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3140	16316	29330	8.12	1.0E-126	AA160709.1	EST_HUMAN	z072c03.r1 Stratiogene pancreas (#637208) Homo sapiens cDNA clone IMAGE:592420 5'
3719	18860	29865	0.87	1.0E-126	X53041.1	NT	z072c03.r1 Stratiogene pancreas (#637208) Homo sapiens cDNA clone IMAGE:592420 5'
3745	19506	29910	2.52	1.0E-126	7657038	NT	H. sapiens DNA for liver cytochrome b5 pseudogene
4908	18038	31028	1.08	1.0E-126	AF101108.1	NT	Homo sapiens death receptor 6 (DR6), mRNA
4908	18038	31027	1.08	1.0E-126	AF101108.1	NT	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63
4956	18086	31062	1.81	1.0E-126	N34078.1	EST_HUMAN	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63
5920	19010	32316	0.68	1.0E-126	T66998.1	EST_HUMAN	Y278c03.r1 Soares melanocyte 2N5HM Homo sapiens cDNA clone IMAGE:207850 5'
6382	19532	32891	2.91	1.0E-126	AA460076.1	EST_HUMAN	Y252b12.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:56527 3'
6419	19588	32951	4.33	1.0E-126	AB040958.1	NT	z085c03.1 Soares fetal fat, N2H2F8, 9w Homo sapiens cDNA clone IMAGE:758444 5' similar to
6419	19588	32952	4.33	1.0E-126	AB040958.1	NT	TR:G1145880 G1145880 TITIN ;
7669	20735	34212	0.9	1.0E-126	AF257737.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
7669	20735	34213	0.9	1.0E-126	AF257737.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
8062	21144	34662	0.73	1.0E-126	AB037715.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8062	21144	34663	0.73	1.0E-126	AB037715.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8062	21144	34663	0.73	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8062	21144	34663	0.73	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8177	21259	34781	2.42	1.0E-126	X16609.1	NT	Human mRNA for ankyrin (variant 2.1)
8377	21458	34982					re74b12.s1 NCL CGAP_Ew1 Homo sapiens cDNA clone IMAGE:809883 similar to SW:TSO6_HUMAN
10000	23038	36629	0.8	1.0E-128	AA483368.1	EST_HUMAN	P98086 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR;
11088	24172	37507	0.57	1.0E-126	4505424	NT	Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA
11806	24798	38494	2.01	1.0E-126	BF683175.1	EST_HUMAN	602139138F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4298240 6'
12823	18500	31536	2.2	1.0E-126	BE261680.1	EST_HUMAN	601149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5'
176	13400	26429	6.48	1.0E-126	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926885 5'
176	13400	26430	2.92	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
177	13400	26429	2.92	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
177	13400	26430	2.75	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
284	13502	28535	2.14	1.0E-127	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
284	13502	28536	2.14	1.0E-127	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
904	14079	27146	1.17	1.0E-127	AF114488.1	NT	Homo sapiens intersecin short isoform (ITSN) mRNA, complete cds
939	14113	27174	4.81	1.0E-127	U72821.2	NT	Homo sapiens lost on transformation LOT1 mRNA, complete cds
1726	14876	27987	2.22	1.0E-127	4827053	NT	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA
2127	15263	28382	1.97	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2127	15263	28383	1.97	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2273	15406	28535	17.46	1.0E-127	4506620	NT	Homo sapiens ribosomal protein L26 (RPL26) mRNA
2418	15547	28676	3.12	1.0E-127	AF245505.1	NT	Homo sapiens adican mRNA, complete cds
2874	15794	28911	21.46	1.0E-127	X12381.1	NT	Human mRNA for cyclotactin 18
3781	16942	29948	0.61	1.0E-127	AF114488.1	NT	Homo sapiens intersecin short isoform (ITSN) mRNA, complete cds
3913	17072	30070	0.7	1.0E-127	AW161287.1	EST_HUMAN	eu8006.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782394 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN; contains element MER22 repetitive element;
4232	17376	30368	0.59	1.0E-127	AF135188.1	NT	Homo sapiens delayed rectifier potassium channel subunit Isk mRNA, complete cds
4368	17511	30497	24.93	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4368	17511	30492	24.93	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4618	17765	30737	0.83	1.0E-127	AF262287.1	NT	Homo sapiens cytochrome P450 retnoid metabolizing protein P450RAI-2 mRNA, complete cds
4725	17890	30842	6.74	1.0E-127	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
4755	17890		2.69	1.0E-127	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C058

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4785	17930	30916	4.36	1.0E-127	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
5824	19014	32320	1.57	1.0E-127	W03547.1	EST_HUMAN	z01a10.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:291288 5' similar to SW:PIP6_RAT P10688 1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE DELTA 1;
5854	19044	32351	0.91	1.0E-127	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM), mRNA
5923	19110	32423	4.18	1.0E-127	X85764.1	NT	H. sapiens NOS2 gene, exon 6
6291	19464	32816	2.23	1.0E-127	X84060.1	NT	H. sapiens TCF11 gene, exon 3-6
6451	19818	32981	5.73	1.0E-127	4504778	NT	Homo sapiens integrin, beta 8 (ITGB8), mRNA
6797	19952	33352	1.09	1.0E-127	11421595	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3), mRNA
7208	20073	33485	0.81	1.0E-127	4826977	NT	Homo sapiens reelin (RELN), mRNA
7964	21014	34525	1.31	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7964	21014	34526	1.31	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7973	21023	34536	0.63	1.0E-127	BF671355.1	EST_HUMAN	602151232F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4292575 5'
9088	22167	36713	0.81	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9088	22167	36714	0.81	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9840	22880	36492	3.73	1.0E-127	AF274893.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9840	22880	36493	3.73	1.0E-127	AF274893.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10077	23115	36719	0.86	1.0E-127	AI298932.1	EST_HUMAN	qm94408.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1898449 3'
10551	23586	37194	0.99	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
11426	24467	38150	5.64	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 98 (mortalin-2) (H. sapiens) (LOC63184), mRNA
11426	24467	38151	5.64	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 98 (mortalin-2) (H. sapiens) (LOC63184), mRNA
11927	24913	38614	1.55	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
11927	24913	38615	1.55	1.0E-127	BE895415.1	EST_HUMAN	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
12539	13400	26429	3.03	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12539	13400	26430	3.03	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12763	25507	32037	1.74	1.0E-127	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
13170	28044		1.64	1.0E-127	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
472	13667	26700	1.56	1.0E-128	BE386617.1	EST_HUMAN	601278127F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3818822 5'
1178	14342	27396	0.96	1.0E-128	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2), mRNA
1178	14342	27397	0.96	1.0E-128	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2), mRNA
2132	15268	28387	18.07	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2132	15268	28388	18.07	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2283	15415	28547	37.91	1.0E-128	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
2516	16842			1.0E-128	11437455	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA
3481	16848	29664	1.11	1.0E-128	AB033073.1	NT	Homo sapiens mRNA for KIAA1247 protein, partial cds
4786	17821	30809	7.27	1.0E-128	11428873	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
5682	18959	32139	0.76	1.0E-128	X89539.1	NT	H. sapiens gene for Inter-alpha-trypsin inhibitor heavy chain H1, exon 12
6548	19710	33086	1.5	1.0E-128	11420965	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (PDE1C), mRNA
7070	20123	33538	6.28	1.0E-128	BF224346.1	EST_HUMAN	78q8610.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3913371 6'
8746	21824	35360	0.67	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8745	21824	35361	0.67	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10341	23376	36987	1.29	1.0E-128	AA639108.1	EST_HUMAN	nc04a11.1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1182620 similar to TR:G951333 G951339
10949	24031	37888	3.54	1.0E-128	11425254	NT	CHROMOSOME SEGREGATION GENE HOMOLOG CAS ;
10957	24038	37673	3.51	1.0E-128	AA925959.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA
11210	24279	37918	1.98	1.0E-128	BE887684.1	EST_HUMAN	on68h08.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1552383 3' similar to gb:X54941 CYCLIN-DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN);
12402	25282		4.26	1.0E-128	AW955290.1	EST_HUMAN	60181912F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913371 6'
124	13821	26663	1.93	1.0E-128	S37722.1	NT	EST:367360 MAGC resequences, MAGC Homo sapiens cDNA
428	13621	26663	1.65	1.0E-128	S37722.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1756	14905	27090	3.74	1.0E-129	AL096880.1	NT	Insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1761	14910	28004	1.66	1.0E-128	AF240796.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
1781	14910	28005	1.66	1.0E-128	AF240796.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1894	15037	28145	4.07	1.0E-129	11418522	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2838	15952	28058	2.93	1.0E-129	4505882	NT	Homo sapiens zinc finger protein 78 (expressed in testis) (ZNF78), mRNA
2838	15952	28059	2.93	1.0E-129	4505882	NT	Homo sapiens platelet-derived growth factor receptor, beta polypeptide (PDGFRB) mRNA
3198	16373	28380	1.43	1.0E-129	Q14585	SWISSPROT	Homo sapiens platelet-derived growth factor receptor, beta polypeptide (PDGFRB) mRNA
3198	16373	29381	1.43	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3198	16373	29382	1.43	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
4279	17424	30413	2.37	1.0E-129	AB040882.1	NT	ZINC FINGER PROTEIN HZF10
4395	17538	30517	2.32	1.0E-129	AW765254.1	EST_HUMAN	Homo sapiens mRNA for KIAA1459 protein, partial cds
							OMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to OMYA5
							Cardiomyopathy associated gene 5

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4395	17538	30518	2.32	1.0E-129	AW755254.1	EST_HUMAN	CMTA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMTA5
6216	19391	32739	3.77	1.0E-129	AJ006345.1	NT	Cardiomyopathy associated gene 5
6854	19813	33201	0.81	1.0E-129	BE88934.1	EST_HUMAN	Homo sapiens KVLQT1 gene
7277	20360	33814	3.99	1.0E-129	AJ006345.1	NT	601513801F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3915350 5'
7340	20420	33882	4.03	1.0E-129	11420850	NT	Homo sapiens KVLQT1 gene
7697	20762	34245	1.04	1.0E-129	AF041056.1	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
7697	20762	34246	1.04	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
8513	21594	35920	3.57	1.0E-129	AB014534.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
10284	23319	36920	1.03	1.0E-129	11437282	NT	Homo sapiens mRNA for KIAA0634 protein, partial cds
10284	23319	36921	1.03	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10730	23763	37370	0.52	1.0E-129	A1199117.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10730	23763	37371	0.52	1.0E-129	A1199117.1	EST_HUMAN	q140d08.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1858959 3' similar to TR:Q14840 Q14840
11497	24555	38230	3.32	1.0E-129	AA625526.1	EST_HUMAN	MITOGEN INDUCIBLE GENE MIG-2;
11578	20420	33882	5.01	1.0E-129	11420850	NT	MITOGEN INDUCIBLE GENE MIG-2;
12387	25273		4.28	1.0E-129	H83155.1	EST_HUMAN	q140d08.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1858959 3' similar to TR:Q14840 Q14840
12817	25544		1.97	1.0E-129	AL120739.1	EST_HUMAN	MITOGEN INDUCIBLE GENE MIG-2;
78	13314	26341	1.01	1.0E-130	AB037836.1	NT	at7207.r1 Sceres_NHMPU_S1 Homo sapiens cDNA clone IMAGE:1047689 5'
1197	14359	27418	0.84	1.0E-130	AB037836.1	EST_HUMAN	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA
1700	14852	27939	22.97	1.0E-130	BE275192.1	EST_HUMAN	y449c03.r1 Sceres fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:199112 5' similar to
1700	14852	27940	22.97	1.0E-130	BE275192.1	EST_HUMAN	SP-B48150 B48150 HP-25=HIBERNATION-RELATED PROTEIN - TAMIAS ASIATICUS=ASIAN ;
2040	15181		2.63	1.0E-130	X04092.1	NT	DKFZp762K171_j1 762 (synonym: hme2) Homo sapiens cDNA clone DKFZp762K171 5'
2830	15944		7.23	1.0E-130	AJ010230.1	NT	Homo sapiens hypothetical protein (HSPC242), mRNA
2943	16120	29132	1.36	1.0E-130	BE664219.1	EST_HUMAN	Homo sapiens mRNA for KIAA1414 protein, partial cds
2943	16120	29133	1.36	1.0E-130	BE664219.1	EST_HUMAN	Homo sapiens cDNA clone IMAGE:3346366 5'
3668	16331	28842	1.03	1.0E-130	AF240698.1	NT	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346366 5'
3864	16120	29132	6.31	1.0E-130	BE664219.1	EST_HUMAN	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346366 5'
3864	16120	29133	6.31	1.0E-130	BE664219.1	EST_HUMAN	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4047	17203	30213	1.8	1.0E-130	AW503560.1	EST_HUMAN	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
4184	17334	30328	0.91	1.0E-130	M97710.1	NT	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
4680	17796	30782	9.77	1.0E-130	AW843993.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5208	18329	31300	1.49	1.0E-130	AW363289.1	EST_HUMAN	RC0-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA
5208	18329	31301	1.49	1.0E-130	AW363289.1	EST_HUMAN	RC0-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA
6960	20188	33612	1.03	1.0E-130	AW843875.1	EST_HUMAN	GM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6960	20188	33613	1.03	1.0E-130	AW843875.1	EST_HUMAN	GM0-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6976	20203	33630	0.85	1.0E-130	11425446	NT	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7404	20482	33949	1.85	1.0E-130		NT	Homo sapiens solute carrier family 8 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7508	20580	34052	0.63	1.0E-130	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7508	20580	34053	0.63	1.0E-130	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8981	21980		0.53	1.0E-130	AF008551.1	NT	Homo sapiens aurora-related kinase 1 (ARK1) mRNA, complete cds
8019	22098	35638	2.06	1.0E-130	AW866242.1	EST_HUMAN	EST368312 MAGC resequencing, MAGD Homo sapiens cDNA
9415	22489	36054	1.82	1.0E-130	AB037766.1	NT	Homo sapiens mRNA for KIAA1335 protein, partial cds
10137	23175		0.63	1.0E-130	AW103454.1	EST_HUMAN	x338606.x1 NCI LCGAP_Ov23 Homo sapiens cDNA clone IMAGE:2595874 3'
4	13243	26243	2.52	0.0E+00	AA228128.1	EST_HUMAN	z58c04.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811
4	13243	26244	2.52	0.0E+00	AA228128.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN. ;
8	13246	26248	1.14	0.0E+00	4895136	NT	z58c04.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811
18	13254	26254	3.34	0.0E+00	8923349	NT	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA
16	13254	26255	3.34	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
23	13261	26262	3.17	0.0E+00	D83327.1	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
23	13261	26263	3.17	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
27	13265	26267	9	0.0E+00	AF147349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
35	13273	26277	0.62	0.0E+00	5802967	NT	Homo sapiens DCRR1 mRNA, partial cds
37	13278	26280	0.89	0.0E+00	M58900.1	NT	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA
41	13279	26285	4.6	0.0E+00	6857825	NT	Human heparin cofactor II (HCF2) gene, exons 1 through 5
68	13296	26312	1.77	0.0E+00	Y17151.2	NT	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA
58	13296	26313	1.77	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
60	13298	26317	1.45	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (Tfujwara) Homo sapiens cDNA clone GEN-516H08 5'
60	13298	26318	1.45	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (Tfujwara) Homo sapiens cDNA clone GEN-516H08 5'
61	13299	26319	9.89	0.0E+00	L16558.1	NT	Human ribosomal protein L7 (RPL7) mRNA, complete cds
63	13301	26322	18.36	0.0E+00	AW09534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07 3'
63	13301	26323	18.36	0.0E+00	AW09534.1	EST_HUMAN	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07 3'
67	13304	26327	2.48	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
69	13308		23.72	0.0E+00	M60878.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
77	13313	26339	2.1	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
77	13313	26340	2.1	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
80	13313	26339	1.06	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
80	13313	26340	1.06	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
83	13318	26348	0.82	0.0E+00	A4953770.1	EST_HUMAN	SW-TMOD_HUMAN P28289 TROPOMODULIN ;
84	13319	26347	16.99	0.0E+00	4501850	NT	Homo sapiens amiloride binding protein 1 (amiline oxidase (copper-containing)) (ABP1), nuclear gene encoding mitochondrial protein, mRNA
85	13320	26347	12.3	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
94	13329	26356	23.92	0.0E+00	5016088	NT	Homo sapiens actin, beta (ACTB) mRNA
97	13332	26359	40.86	0.0E+00	U89277.1	NT	Human polyhomeotic 1 homolog (HPH1) mRNA, partial cds
103	13339	26366	2.4	0.0E+00	A1114743.1	EST_HUMAN	HA1347 Human fetal liver cDNA library Homo sapiens cDNA
104	13340	26367	0.9	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
110	13343	26371	0.68	0.0E+00	X91213.1	NT	H sapiens ncx1 gene (exon 2)
118	13350	26377	0.69	0.0E+00	A1623701.1	EST_HUMAN	h38305.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:220833 3' similar to TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR ;
119	13350	26377	1.59	0.0E+00	A1623701.1	EST_HUMAN	h38305.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:220833 3' similar to TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR ;
120	15980	26378	1.92	0.0E+00	N36040.1	EST_HUMAN	y01f09.r1 Soares melanocyte 2N5HM Homo sapiens cDNA clone IMAGE:270017 5'
120	15980	26379	1.92	0.0E+00	N36040.1	EST_HUMAN	y01f09.r1 Soares melanocyte 2N5HM Homo sapiens cDNA clone IMAGE:270017 5'
123	13353	26384	1.63	0.0E+00	4505458	NT	Homo sapiens neuropilin 2 (NRP2) mRNA
133	13359	26392	3.65	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
133	13359	26393	3.65	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
141	13609	26647	1.9	0.0E+00	4503680	NT	Homo sapiens Ig Fc binding protein (FCGAMMA1B) mRNA
143	13367	26400	0.7	0.0E+00	T56945.1	EST_HUMAN	y83g04.r2 Striatagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:88310 5'
143	13367	26401	0.7	0.0E+00	T56945.1	EST_HUMAN	y83g04.r2 Striatagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:88310 5'
157	13382		12.8	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
161	13388	26416	2.06	0.0E+00	BF036881.1	EST_HUMAN	601460376F1 NIH MGC_68 Homo sapiens cDNA clone IMAGE:3853803 5'
163	13388		38.39	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
166	13391	26419	12.6	0.0E+00	AF111189.2	NT	Homo sapiens serine palmitoyl transferase, subunit I gene, complete cds; and unknown genes
168	13393	26420	1.03	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
169	13393	26420	0.79	0.0E+00	BE295973.1	EST_HUMAN	601174270F1 NIH MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
170	13394	26421	2.4	0.0E+00	W79873.1	EST_HUMAN	z632505.f1 Soares fetal heart NHHH10W Homo sapiens cDNA clone IMAGE:346201 6 similar to
171	13395	26422	0.78	0.0E+00	BE162832.1	EST_HUMAN	gb-X16282_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);
171	13395	26423	0.78	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
172	13398	26424	4.73	0.0E+00	AF244088.1	NT	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
175	13399	26427	26.75	0.0E+00	AL163202.2	NT	Homo sapiens zinc finger protein mRNA, complete cds
175	13399	26428	28.75	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
185	13407	26435	6.75	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z
185	13407	26436	6.75	0.0E+00	BE018970.1	EST_HUMAN	CE22631.1
190	13412	26439	2.4	0.0E+00	AB018327.1	NT	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z
190	13412	26440	2.4	0.0E+00	AB018327.1	NT	CE22631.1
191	13413	26441	1.88	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
191	13413	26442	1.88	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
199	13422	26453	57.89	0.0E+00	D50659.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
204	13427	26458	3.13	0.0E+00	AF273045.1	NT	Human gamma-cytoplasmic actin (ACTGP8) pseudogene
204	13427	26459	3.13	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen set4-3 mRNA, complete cds
208	13428	26491	7.71	0.0E+00	AF187174.1	NT	Homo sapiens CTCL tumor antigen set4-3 mRNA, complete cds
208	13428	26492	7.71	0.0E+00	AF187174.1	NT	Homo sapiens chromosome XMSL3-2 protein mRNA, complete cds
216	18007	26469	12	0.0E+00	AI587308.1	EST_HUMAN	Homo sapiens chromosome XMSL3-2 protein mRNA, complete cds
216	18007	26470	12	0.0E+00	AI587308.1	EST_HUMAN	ig04f08.x1 NCL_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb-J03191 PROFILIN 1 (HUMAN);
218	13440	26472	1.93	0.0E+00	AF196558.1	NT	ig04f08.x1 NCL_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb-J03191 PROFILIN 1 (HUMAN);
221	13443		11.48	0.0E+00	4506632	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
222	13444		6.83	0.0E+00	AF132000.1	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
228	13450	26476	1.48	0.0E+00	AB018294.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
228	13450	26478	1.34	0.0E+00	AB018294.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
230	13451	26479	2.02	0.0E+00	6578444	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
237	13459	26483	0.89	0.0E+00	BE246780.1	EST_HUMAN	Mus musculus testis-specific protein, Y-encoded-like (Tspyl), mRNA
237	13459	26484	0.89	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
237	13459	26484	0.89	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
237	13459	26485	0.89	0.0E+00	BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466
245	13467	26496	1.17	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0759 protein, partial cds
245	13467	26497	1.17	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
248	13469	26501	7.54	0.0E+00	5453805	NT	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
250	13471		3.79	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
257	13476	26607	4.66	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
259	13478	26510	1.22	0.0E+00	X89772.1	NT	H. sapiens mRNA for Interferon alpha/beta receptor (long form)
267	13486		5.95	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
280	13498	26526	1.37	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
280	13498	26530	1.37	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
282	13500	26532	1.9	0.0E+00	7706028	NT	Homo sapiens hypothetical protein (LOC51260), mRNA
283	13510		0.96	0.0E+00	D63327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
294	13511	26545	1.2	0.0E+00	D63327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
294	13511	26546	1.2	0.0E+00	D63327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
295	13512		1.41	0.0E+00	AW845293.1	EST_HUMAN	IL2-CT0031-181199-020-B03 CT0031 Homo sapiens cDNA
304	13520	26553	5.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
304	13520	26554	5.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
315	13531	26564	5.16	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
316	13532	26565	4.28	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
317	16010		8.13	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
318	13533		1.42	0.0E+00	AA480002.1	EST_HUMAN	zy19c06.r1 Soares NIH-MP_u_S1 Homo sapiens cDNA clone IMAGE753994 5'
319	13534	26566	19.55	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
320	13534	26566	24.65	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
324	13538	26570	1.59	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
337	13560	26579	1.15	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
337	13560	26580	1.15	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
338	13551	26581	4.14	0.0E+00	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
339	13551	26581	1.82	0.0E+00	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
							Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
354	13565	26593	4.38	0.0E+00	5174574	NT	Homo sapiens meslin (MSN), mRNA
355	13566	26594	0.74	0.0E+00	4505256	NT	Homo sapiens X-box binding protein 1 (XBP1) mRNA
358	13569	26598	4.58	0.0E+00	4827057	NT	Homo sapiens zinc finger protein zfp31 (z31) mRNA, partial cds
361	13572	26603	0.96	0.0E+00	U71600.1	NT	

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
366	13576	26607	2.75	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
366	13576	26608	2.75	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
367	13611	26609	2.53	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
369	13578	26611	1.01	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
372	13581	26615	1.59	0.0E+00	4503864	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
373	13582	26616	2	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
374	13582	26616	1.43	0.0E+00	D80005.1	NT	Human mRNA for KIAA0184 gene, partial cds
376	13584	26618	0.96	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
387	13583	26629	3.37	0.0E+00	AU134963.1	EST_HUMAN	AU134963 PLAGE1 Homo sapiens cDNA clone PLACE1000899 5'
398	13635	26673	7.56	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
399	13636	26674	1.08	0.0E+00	AI363014.1	EST_HUMAN	cyb1h05 x1 NCI CGAP Br25 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gb:X54199
404	13601	26636	1.32	0.0E+00	AW754180.1	EST_HUMAN	PHOSPHORIBOSYLAMINE--GLYCINE LIGASE (HUMAN);
407	13603	26639	2.24	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
408	13604	26640	2.34	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
408	13604	26641	2.34	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
409	13605	26642	2.18	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
410	13606	26643	1.42	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
410	13606	26644	1.42	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
411	13607	26645	1.98	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
412	13608	26646	2.55	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
413	13609	26647	2.14	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
414	13610	26648	0.96	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
414	13610	26649	0.96	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
415	13610	26648	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
415	13610	26649	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
419	13614		18.46	0.0E+00	4506608	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
433	13233	26233	1.49	0.0E+00	R17795.1	EST_HUMAN	XP02a02.1 Scars infant brain IN1B Homo sapiens cDNA clone IMAGE:31652 5'
441	13637	26675	1.39	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase,
442	13638		3.85	0.0E+00	4506728	NT	phosphoribosylglycinamide synthetase (GART) mRNA
443	13639	26676	2.82	0.0E+00	AB028942.1	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
444	13640	26677	17.7	0.0E+00	4507152	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
444	13640	26678	17.7	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
445	13541	26679	4.23	0.0E+00	AF163607.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds
457	13552		1.45	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
459	13554	26692	4.44	0.0E+00	4557679	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
464	13559		0.75	0.0E+00	BE264447.1	EST_HUMAN	601111520F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352348 5'
480	13675	26706	3.38	0.0E+00	4504632	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
480	13675	26707	3.38	0.0E+00	4504632	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
486	13680	26715	21.77	0.0E+00	4557887	NT	Homo sapiens keratin 13 (KRT13) mRNA
486	13680	26716	21.77	0.0E+00	4557887	NT	Homo sapiens keratin 13 (KRT13) mRNA
486	13691	26722	4.1	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
497	13682	26723	5.9	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
497	13692	26724	5.9	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
508	13702	26729	4.25	0.0E+00	AB030035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
508	13702	26731	1.81	0.0E+00	AJ132898.1	EST_HUMAN	AJ132898 NT2RP4 Homo sapiens cDNA clone NT2RP4000637 5'
516	13710	26737	1.66	0.0E+00	BE985144.1	EST_HUMAN	601274951F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615756 5'
517	16014	26738	1.7	0.0E+00	AW938625.1	EST_HUMAN	PIM0-DT0065-130400-002-c08 DT0065 Homo sapiens cDNA
520	13713	26740	1.82	0.0E+00	AL117233.1	NT	Novel human gene mapping to chromosome 1
521	13714	26741	0.95	0.0E+00	8923955	NT	Homo sapiens PC326 protein (PC326), mRNA
523	13718		1.9	0.0E+00	BF973403.1	EST_HUMAN	IL2-FTD159-070800-120-F07 FT0159 Homo sapiens cDNA
532	13725	26751	4.43	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
539	16015	26755	1.57	0.0E+00	BE081627.1	EST_HUMAN	QV2-BT0635-160400-142-h05 BT0635 Homo sapiens cDNA
544	13737	26761	1.15	0.0E+00	BF028005.1	EST_HUMAN	601764858F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996698 5'
550	13743	26768	1.57	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
553	13746	26771	8.39	0.0E+00	5006030	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCEB1L) mRNA
554	13747	26772	4.93	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
554	13747	26773	4.93	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
556	13748	26775	0.73	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
557	13750	26776	0.83	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
557	13750	26777	0.63	0.0E+00	8923831	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
562	13754		4.82	0.0E+00	AF003528.1	NT	
570	13762	26786	1.39	0.0E+00	AW135324.1	EST_HUMAN	U1-H-B1-acb-h-04-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2713951 3'
580	13772		5.31	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
599	13789	26810	1.85	0.0E+00	5174742	NT	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRCF1), nuclear gene encoding mitochondrial protein, mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
612	13801		7.14	0.0E+00	J04066.1	NT	Human apolipoprotein A-I (ApoA-I) gene, exon 1
616	13804	26824	1.87	0.0E+00	BF104698.1	EST_HUMAN	601822627F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'
617	13806	26826	0.95	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
617	13806	26827	0.95	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
618	13806	26828	0.77	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
618	13806	26827	0.77	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
619	13806	26828	0.72	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
619	13806	26827	0.72	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
624	13809	26830	0.64	0.0E+00	4501854	NT	Homo sapiens acyl-Coenzyme A carboxylase beta (ACACB), mRNA
629	13814	26836	1.93	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
629	13814	26837	1.93	0.0E+00	AF221712.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
639	13824	26847	2.19	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
641	13826	26850	0.93	0.0E+00	AB037807.1	NT	Homo sapiens mRNA for KIAA1386 protein, partial cds
643	13826	26851	1.99	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
644	13829	26852	2.34	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
644	13829	26853	2.34	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
645	13830	26854	0.98	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
645	13830	26855	0.98	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
652	13838	26865	1.42	0.0E+00	AA399486.1	EST_HUMAN	z60c07.1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726732 5'
656	13842	26869	8.57	0.0E+00	DT1078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
660	13846	26872	4.28	0.0E+00	W78811.1	EST_HUMAN	zh51b04.1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
660	13846	26873	4.28	0.0E+00	W78811.1	EST_HUMAN	gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
663	13849		3.58	0.0E+00	4885526	NT	Homo sapiens novel SH2-containing protein 3 (NSP3), mRNA
670	13856	26885	2.16	0.0E+00	6006003	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B), mRNA
672	13858	26888	1.25	0.0E+00	5031624	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2), mRNA
676	13861	26892	1.88	0.0E+00	U05235.1	NT	Human neutral amino acid transporter (ASCT1) gene, exon 8
678	13865	26896	1.07	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1), mRNA, complete cds
679	13865	26896	1.07	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1), mRNA, complete cds
685	13970	26901	5.11	0.0E+00	4926947	NT	Homo sapiens protein kinase, X-linked (PRKX), mRNA
685	13870	26902	5.11	0.0E+00	4926947	NT	Homo sapiens protein kinase, X-linked (PRKX), mRNA
691	16018		1.8	0.0E+00	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
700	13883	26916	3.92	0.0E+00	4504424	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMGB1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
705	13888	26920	4.94	0.0E+00	AB029012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
715	13897	26935	3.83	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
727	13909	26949	13.13	0.0E+00	AA614537.1	EST_HUMAN	np-4801.s1 NC1 CGAP_B1.1 Homo sapiens cDNA clone IMAGE:129633 3' similar to gb:X57352
731	13913	26953	6.4	0.0E+00	M60675.1	NT	INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);
731	13913	26954	6.4	0.0E+00	M60675.1	NT	Human von Willebrand factor gene, exons 23 through 34
741	13923	26963	1.35	0.0E+00	5032182	NT	Human von Willebrand factor gene, exons 23 through 34
747	13928	26969	4.62	0.0E+00	AF264750.1	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
747	13928	26970	4.62	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
749	13930	26973	9.17	0.0E+00	11545800	NT	Homo sapiens ALR-like protein mRNA, partial cds
755	13936	26981	2.26	0.0E+00	BE241577.1	EST_HUMAN	Homo sapiens hypodermal protein FLJ21634 (FLJ21634), mRNA
775	13955	27005	1.19	0.0E+00	AF226980.2	NT	TCAAP-ID0778 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0779
775	13955	27006	1.19	0.0E+00	AF226980.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
778	13958	27009	8.92	0.0E+00	J03764.1	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
778	13958	27010	8.92	0.0E+00	J03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
781	13981	27011	0.96	0.0E+00	AB037760.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
782	13982	27012	2.07	0.0E+00	6912749	NT	Homo sapiens mRNA for KIAA1339 protein, partial cds
784	16022	27014	2.36	0.0E+00	D30812.1	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
785	13984	27015	3.95	0.0E+00	BE869735.1	EST_HUMAN	Homo sapiens mRNA for repressor protein, partial cds
790	13963	27021	4.04	0.0E+00	R46915.1	EST_HUMAN	601445647F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3949803 5'
791	13970	27022	2.85	0.0E+00	5032088	NT	Y69908.1 Soares breast 2N5bHst Homo sapiens cDNA clone IMAGE:154048 5'
800	13979	27031	1.64	0.0E+00	AB011399.1	NT	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA
803	13983	27035	3.01	0.0E+00	7661965	NT	Homo sapiens gene for AF-8, complete cds
815	13984	27048	1.24	0.0E+00	D80006.1	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
818	13994	27049	1.24	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
820	13999	27053	2.74	0.0E+00	X89772.1	NT	Human mRNA for KIAA0184 gene, partial cds
824	14003	27057	3.25	0.0E+00	AB020717.1	NT	H sapiens mRNA for interferon alpha/beta receptor (long form)
824	14003	27058	3.25	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
829	14007	27064	13.47	0.0E+00	5174478	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
830	14008	27065	11.09	0.0E+00	4907500	NT	Homo sapiens pericent'rin (PCNT) mRNA
847	14026	27085	1.65	0.0E+00	7657213	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TAM1) mRNA
848	14026	27086	2.46	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
860	14026	27088	1.84	0.0E+00	4957688	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
							Homo sapiens potassium voltage-gated channel, Isk-related family, member 1 (KCNK1) mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
856	14033	27094	2.19	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
859	14033	27095	2.19	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
857	14034	27093	1.45	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
862	14039	27101	2.85	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60KD) (GABPA), mRNA
868	14042	27106	1.37	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
866	14042	27107	1.37	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
873	14046		2.07	0.0E+00	AF027153.1	NT	Homo sapiens sodium/myo-inositol cotransporter (SLC5A3) gene, complete cds
877	14053	27113	5.27	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
877	14053	27119	5.27	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
878	14054	27120	11.32	0.0E+00	4507162	NT	Homo sapiens SON DNA binding protein (SON) mRNA
879	14055	27121	4.03	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
880	14056	27122	3.87	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
884	14060	27125	1.54	0.0E+00	AB020717.1	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
884	14060	27126	1.54	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
885	14061	27127	1.82	0.0E+00	AA533272.1	EST_HUMAN	h166407.st NCI_CGAP_P110 Homo sapiens cDNA clone IMAGE:897483
885	14061	27128	1.82	0.0E+00	AA533272.1	EST_HUMAN	h166407.st NCI_CGAP_P110 Homo sapiens cDNA clone IMAGE:897483
888	14062		8.41	0.0E+00	BF677894.1	EST_HUMAN	802085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248916 5'
890	14066	27129	1.4	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
890	14066	27130	1.4	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
891	14067	27131	2.54	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
891	14067	27132	2.54	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
894	14089	27155	0.98	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
921	14098	27160	1.93	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-271-g11 BT0703 Homo sapiens cDNA
921	14098	27161	1.93	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-271-g11 BT0703 Homo sapiens cDNA
931	14106	27170	2.7	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
941	14116		9.09	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67KD, ribosomal protein SA) (LAMR1), mRNA
943	14115		9.89	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67KD, ribosomal protein SA) (LAMR1), mRNA
944	14117	27176	1.42	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1-antitrypsin precursor, mRNA, partial cds
945	14118	27177	0.69	0.0E+00	S69364.1	NT	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]
945	14118	27178	0.69	0.0E+00	S69364.1	NT	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]
945	14118	27179	0.69	0.0E+00	S69364.1	NT	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]
948	14119	27180	1.82	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (Plk) gene, exons 1-4, complete cds
949	14122	27183	0.71	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
949	14122	27184	0.71	0.0E+00	Z20656.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
973	14146	27205	0.93	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
974	14147	27206	9.11	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
975	14148	27207	0.79	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
976	14149	27208	1.24	0.0E+00	4507430	NT	Homo sapiens thyrotrophic embryonic factor (TEF), mRNA
978	14149	27209	1.24	0.0E+00	4507430	NT	Homo sapiens thyrotrophic embryonic factor (TEF), mRNA
984	16027	27216	3.95	0.0E+00	AI001948.1	EST_HUMAN	os98403.s1 NCL_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
984	16027	27217	3.95	0.0E+00	AI001948.1	EST_HUMAN	os98403.s1 NCL_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
986	14158	27219	14.34	0.0E+00	7657266	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
997	14168	27229	1.76	0.0E+00	AB030563.1	NT	Homo sapiens mRNA for PSP24, complete cds
1008	14177	27236	43.62	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
1006	14177	27237	43.62	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
1006	14177	27238	43.62	0.0E+00	BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
1008	14178	27241	2.02	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
1008	14179	27242	2.02	0.0E+00	X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
1017	14188	27249	3.97	0.0E+00	4757869	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL), mRNA
1029	14199	27257	1.07	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
1030	14200	27258	5.81	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
1031	14200	27258	9.09	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
1034	14203		4	0.0E+00	AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
1035	14203		29.66	0.0E+00	AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
1039	14207	27264	0.96	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1040	14207	27264	4.66	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1041	14207	27264	1.3	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1042	14208	27265	1.18	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1045	14211	27268	2.11	0.0E+00		NT	Homo sapiens DKFZP686M0122 protein (DKFZP686M0122), mRNA
1049	14216	27272	1.27	0.0E+00	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1051	14217		1.39	0.0E+00	AA458890.1	EST_HUMAN	aa8807.s1 Stragena fetal retina 937202 Homo sapiens cDNA clone IMAGE:838236 3' similar to SW:PRSB HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;
1064	14220	27277	2.43	0.0E+00	N43182.1	EST_HUMAN	EST 5124 WATM1 Homo sapiens cDNA clone 5124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1054	14220	27278	2.43	0.0E+00	N43182.1	EST_HUMAN	EST 5124 WATM1 Homo sapiens cDNA clone 5124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1066	14221	27279	0.97	0.0E+00	4758249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1055	14221	27280	0.67	0.0E+00	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
1058	14224		3.27	0.0E+00	8922833	NT	Homo sapiens hypothetical protein FLJ11196 (FLJ11196), mRNA
1072	14238	27285	1.51	0.0E+00	4758569	NT	Homo sapiens heat shock 70kD protein 9B (HSP90B) mRNA
1080	14255	27310	1.51	0.0E+00	4826872	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1090	14255	27311	1.51	0.0E+00	4826872	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1094	14259	27315	2.74	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1094	14259	27316	2.74	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1095	14260	27317	13.57	0.0E+00	AJ245622.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
1097	14262		0.92	0.0E+00	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1099	14264	27321	2.81	0.0E+00	5174384	NT	Homo sapiens alkylator repair, alkB homolog (ABH), mRNA
1106	14271	27330	2.04	0.0E+00	4758117	NT	Homo sapiens Death associated protein 3 (DAP3) mRNA
1120	14285	27340	1.91	0.0E+00	BE005208.1	EST_HUMAN	MR0-EN0115-200300-003-108 EN0115 Homo sapiens cDNA
1143	14308	27364	3.82	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1143	14308	27365	3.82	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1155	14319	27373	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1155	14319	27374	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1156	14320	27375	9.35	0.0E+00	4500712	NT	Homo sapiens ribosomal protein S27a (RPS27A) mRNA
1159	14322	27377	1.2	0.0E+00	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
1161	14325	27380	3.95	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1163	14327	27381	19.6	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1164	14328	27382	4.52	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1164	14328	27383	4.52	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1168	14331	27386	1.44	0.0E+00	7706500	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51729), mRNA
1169	14332	27387	0.71	0.0E+00	X95826.1	NT	H. sapiens ART4 gene
1169	14332	27388	0.71	0.0E+00	X95826.1	NT	H. sapiens ART4 gene
1170	14333	27389	1.15	0.0E+00	AI147650.1	EST_HUMAN	q522d10x1 Scarex, prephat, uterus, NBHPU Homo sapiens cDNA clone IMAGE:1667011 3'
1172	14335	27391	1.62	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1181	14344	27400	1.22	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1181	14344	27401	1.22	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1182	14345	27402	1.32	0.0E+00	9968444	NT	Homo sapiens chondroitin sulfate proteoglycan 3 (C12ORF3), mRNA
1185	14357	27415	2.19	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1195	14357	27416	2.19	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1199	14360	27419	1.09	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1205	14367	27426	8.64	0.0E+00	4657887	NT	Homo sapiens keratin 18 (KRT18) mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1256	14395		1.28	0.0E+00	7657336	NT	Homo sapiens mult. (E. coli) homolog 3 (MLH3), mRNA
1250	14409	27471	0.94	0.0E+00	8922593	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
1254	14413	27475	2.89	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1254	14413	27476	2.89	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1255	14414	27477	3.33	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1256	16032	27478	2.46	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1275	14432	27503	4.88	0.0E+00	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
1276	14433	27504	1.97	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1286	14442	27510	0.69	0.0E+00	4505740	NT	Homo sapiens prefoldin 4 (PFDN4) mRNA
1295	14451		1.38	0.0E+00	Y18000.1	NT	Homo sapiens NF2 gene
1303	14459	27525	29.86	0.0E+00	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1310	14468	27534	2.98	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSOR9) mRNA, complete cds
1316	14472	27538	1.53	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1316	14472	27539	1.53	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1328	14485	27552	3.28	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1328	14485	27553	3.28	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1328	14485	27554	3.28	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1329	14486		2.16	0.0E+00	AF086158.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1339	16034	27566	1.2	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1339	16034	27567	1.2	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1346	16991	27573	1.4	0.0E+00	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1346	14501	27574	1.86	0.0E+00	5803148	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1347	14502	27576	0.83	0.0E+00	4508004	NT	Homo sapiens RFB30 gene for RING finger protein
1349	14504	27576	1.7	0.0E+00	Y07829.2	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1350	14505	27577	1.55	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNF9), mRNA
1351	14506	27578	0.71	0.0E+00	4508004	NT	Homo sapiens ring finger protein 173 (ZNF173) mRNA
1353	14508	27580	4.44	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1354	14509	27581	1.34	0.0E+00	7657529	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1355	14510	27582	4.99	0.0E+00	7661985	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1356	14511	27583	3.83	0.0E+00	8667387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1356	14511	27584	3.83	0.0E+00	8667387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1368	14522	27597	1.36	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
1429	14583	27656	1.02	0.0E+00	BE257955.1	EST_HUMAN	801109792F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350471 5'
1428	14583	27657	1.02	0.0E+00	BE257955.1	EST_HUMAN	801109792F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350471 5'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1440	14593	27668	1.03	0.0E+00	AJ250014.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyd gene
1449	14602	27680	13.57	0.0E+00	6042206	NT	RAN, member RAS oncogene family-Homo sapiens RAN, member RAS oncogene family (RAN), mRNA
1457	14810	27690	0.97	0.0E+00	4505648	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1457	14810	27691	0.97	0.0E+00	4505648	NT	Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA
1459	14812	27694	1.99	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1459	14812	27695	1.99	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1462	14815	27697	29.09	0.0E+00	AJ238093.1	NT	Homo sapiens alpha1-6fucosyltransferase (alpha1-6FucT) gene, exon 7
1471	14825	27709	4.63	0.0E+00	AJ238093.1	NT	Novel human gene on chromosome 20
1490	14843	27724	4.2	0.0E+00	AL132989.1	NT	Novel human gene mapping to chromosome 1
1491	14844	27725	1.37	0.0E+00	AL137764.1	NT	Novel human gene mapping to chromosome 1
1495	14848	27730	1.79	0.0E+00	D87077.1	NT	Human mRNA for KIAA0240 gene, partial cds
1498	14851	27733	8.24	0.0E+00	6912457	NT	Homo sapiens calcitriol binding protein 1 (KIAA0330), mRNA
1500	14853	27735	2.28	0.0E+00	7661865	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1500	14853	27736	2.28	0.0E+00	7661865	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1501	14854	27737	3.74	0.0E+00	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1507	14860	27742	6.62	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1507	14860	27743	6.62	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1541	14893	27772	2.61	0.0E+00	7706434	NT	Homo sapiens hHDC for homolog of Drosophila headcase (LOC51898), mRNA
1555	14708	27785	2.66	0.0E+00	AA481172.1	EST_HUMAN	aa34a03.r1 NC1 CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815116 5'
1562	14715	27792	27.8	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1562	14715	27793	27.8	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1564	14717	27796	1.55	0.0E+00	AW976097.1	EST_HUMAN	EST388208 MAGE cDNA sequences, MAGN Homo sapiens cDNA
1564	14717	27797	1.55	0.0E+00	AW976097.1	EST_HUMAN	EST388208 MAGE cDNA sequences, MAGN Homo sapiens cDNA
1566	14718	27798	1.03	0.0E+00	D10884.1	NT	Bovine mRNA for neurocalcin
1567	14720		3.2	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FIP3 (FIP3) genes, complete cds
1568	14721	27801	26.69	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1568	14721	27802	26.69	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1570	14723	27804	3.95	0.0E+00	7662405	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
1571	14724		9.78	0.0E+00	7663972	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
1576	14729	27810	64.77	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1578	14731	27811	0.97	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1578	14731	27812	0.97	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1579	16042		32.23	0.0E+00	4506654	NT	Homo sapiens ribosomal protein L5 (RPL6) mRNA
1580	14732	27813	27.68	0.0E+00	M14199.1	NT	Human laminin receptor (2-HS epitope) mRNA, 5' end
1592	14745	27828	1.43	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1592	14745	27829	1.43	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1594	14747	27830	13.85	0.0E+00	4503088	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1602	14755		3.25	0.0E+00	D00333.1	NT	human c-yes-2 gene
1611	14764	27844	11.38	0.0E+00	Z83738.1	NT	H. sapiens HH2B/le gene
1612	14765	27845	2.55	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1612	14765	27846	2.55	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1613	14766	27847	11.09	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKCG Homo sapiens cDNA clone GKCB0F02 5'
1613	14766	27848	11.09	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKCG Homo sapiens cDNA clone GKCB0F02 5'
1616	16043	27851	2.1	0.0E+00	AB040905.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1618	14770	27852	1.88	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1620	14772	27855	6.83	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1620	14772	27856	6.83	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1622	14774	27857	50.88	0.0E+00	5729876	NT	Homo sapiens heat shock 70KD protein 10 (HSC71) (HSPA10), mRNA
1622	14774	27858	56.88	0.0E+00	5729876	NT	Homo sapiens heat shock 70KD protein 10 (HSC71) (HSPA10), mRNA
1624	14776	27860	1.53	0.0E+00	M91803.1	NT	Human sodium channel mRNA
1639	14791	27876	6.29	0.0E+00	H26973.1	EST_HUMAN	yo76c05.s1 Soares adult brain N2b-HB55Y Homo sapiens cDNA clone IMAGE:183848 3'
1648	14801	27887	1.87	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1648	14801	27888	1.87	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1668	14820	27903	1.66	0.0E+00	AW444637.1	EST_HUMAN	UI-H-BIS-giw-c-04-Q-ULs1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:2733234 3'
1698	14850	27936	2.12	0.0E+00	BE144364.1	EST_HUMAN	MRO-HT0166-191199-004-b11 HT0166 Homo sapiens cDNA
1698	14850	27937	2.12	0.0E+00	BE144364.1	EST_HUMAN	MRO-HT0166-191199-004-b11 HT0166 Homo sapiens cDNA
1702	14854	27941	1.3	0.0E+00	A1768104.1	EST_HUMAN	wg81b07.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2371477 3' similar to TR:Q62768 Q62768 CYS2/HIS2 ZINC FINGER PROTEIN. ;
1703	14855	27942	1.71	0.0E+00	4758613	NT	Homo sapiens hematopoietic-derived zinc finger protein (HD-ZNF1) mRNA
1704	14856	27943	2.8	0.0E+00	AF057177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1708	14859	27947	2.1	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1708	14859	27948	2.1	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1710	14861	27950	64.4	0.0E+00	4557687	NT	Homo sapiens keratin 18 (KRT18) mRNA
1711	14862	27951	2.42	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
1714	14865	27954	1.08	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NCI CGAP Lu2a Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:O95147 O95147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1714	14855	27955	1.08	0.0E+00	BE222374.1	EST_HUMAN	hu11d05.x1 NC_OGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:095147 O88147
1716	14856	27957	3.2	0.0E+00	4557610	NT	MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1719	14859	27960	4.3	0.0E+00	H30132.1	EST_HUMAN	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1719	14859	27961	4.3	0.0E+00	H30132.1	EST_HUMAN	yo59c08.r1 Soares breast 3Nbl-Hst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089
1721	14871	27963	0.97	0.0E+00	A114980.1	EST_HUMAN	GAMMA-GLUTAMYL-TRANSEPTIDASE 5 PRECURSOR (HUMAN);
1722	14872	27963	10.28	0.0E+00	Z80780.1	NT	GAMMA-GLUTAMYL-TRANSEPTIDASE 5 PRECURSOR (HUMAN);
1722	14872	27964	10.28	0.0E+00	Z80780.1	NT	yo59c08.r1 Soares breast 3Nbl-Hst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64089
1725	14878	27968	21.3	0.0E+00	6031748	NT	GAMMA-GLUTAMYL-TRANSEPTIDASE 5 PRECURSOR (HUMAN);
1734	14883	27976	6.13	0.0E+00	8923841	NT	qf43f09.x1 Soares_bctle_NHT Homo sapiens cDNA clone IMAGE:1762809 3'
1737	14886	27979	1.53	0.0E+00	5453855	NT	H. sapiens H2B/h gene
1741	14890	27983	1.95	0.0E+00	M75980.1	NT	H. sapiens H2B/h gene
1741	14890	27984	1.95	0.0E+00	M75980.1	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1744	14893	27986	1.11	0.0E+00	4826973	NT	Homo sapiens FOXJ2 forkhead factor (LOC35810), mRNA
1747	14896	27991	2.54	0.0E+00	M75980.1	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
1751	14900	27997	6.57	0.0E+00	AB026542.1	NT	Human hepatocyte growth factor gene, exon 15
1753	14902	28008	2.84	0.0E+00	S94400.1	NT	Human hepatocyte growth factor gene, exon 15
1762	14911	28009	5.29	0.0E+00	4557638	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1) mRNA
1784	14933	28027	3.33	0.0E+00	AF273841.1	NT	Human hepatocyte growth factor gene, exon 15
1828	15047	28073	41.98	0.0E+00	4506718	NT	Human hepatocyte growth factor gene, exon 15
1830	14978	28073	3.2	0.0E+00	4557656	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
1833	14980	28078	2.47	0.0E+00	U63963.1	NT	TCR zeta [human, Genomic]mRNA, 365 nt, segment 1 of 8
1837	16048	28083	7.55	0.0E+00	4505332	NT	Homo sapiens solute carrier family 26 (sulfate transporter), member 2 (SLC26A2) mRNA
1839	14985	28085	1.7	0.0E+00	AA113030.1	EST_HUMAN	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1850	14988	28099	24.06	0.0E+00	U14967.1	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1852	14998	28102	9	0.0E+00	A5002331.1	NT	Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NASP) mRNA
1853	14999	28103	24.99	0.0E+00	4502264	NT	Human ribosomal protein L21 mRNA, complete cds
1853	14999	28104	24.99	0.0E+00	4502264	NT	Human mRNA for KIAA0333 gene, partial cds
1853	14999	28104	24.99	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1853	14999	28104	24.99	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1853	14939	28105	24.99	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1870	15015	28124	3.11	0.0E+00	4504626	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1870	15015	28125	3.11	0.0E+00	4504626	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1881	15025	28131	7.19	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1881	15025	28132	7.19	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1892	15036	28143	1.84	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1892	15036	28144	1.84	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1895	15038	28148	3.59	0.0E+00	4828783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1895	15038	28147	3.59	0.0E+00	4828783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1896	15039	28148	7.35	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1896	15039	28149	7.35	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1899	15042	28152	2.3	0.0E+00	AW207280.1	EST_HUMAN	U1H-B11-afn-4-07-Q.U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1899	15042	28153	2.3	0.0E+00	AW207280.1	EST_HUMAN	U1H-B11-afn-4-07-Q.U1.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1924	15087	28171	3.22	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1924	15087	28172	3.22	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1943	15086	28187	1.04	0.0E+00	BE006292.1	EST_HUMAN	RC2-BN0128-200300-012-504 BN0128 Homo sapiens cDNA
1972	15115	28215	1.62	0.0E+00	7657390	NT	Homo sapiens nuclear protein (NP220), mRNA
1972	15115	28216	1.62	0.0E+00	7657390	NT	Homo sapiens nuclear protein (NP220), mRNA
1975	15118	28218	3.14	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1975	15118	28219	3.14	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1981	15124	28228	1.29	0.0E+00	AB037783.1	NT	Homo sapiens mRNA for KIAA1367 protein, partial cds
1985	15128		1.64	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1986	15051	28230	57.92	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1986	15051	28231	57.92	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1991	15133	28238	3.19	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1991	15133	28239	3.19	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1994	15135	28241	2.41	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
1996	15137		6.39	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2001	15142		5.28	0.0E+00	M55032.1	NT	Human topoisomerase I pseudogene 1
2003	16052	28248	1.84	0.0E+00	5901805	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2003	15145	28250	1.3	0.0E+00	BE018066.1	EST_HUMAN	bb73f11.v1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048045 5'
2011	15151	28255	1.69	0.0E+00	4809282	NT	Homo sapiens histidine aminonitrylase (HAL) mRNA
2011	15151	28256	1.69	0.0E+00	4809282	NT	Homo sapiens histidine aminonitrylase (HAL) mRNA
2024	15185		1.04	0.0E+00	AL163262.2	NT	Homo sapiens chromosome 21 segment HS21C052
2028	15187	28272	1.41	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB) mRNA
2026	15167	28273	1.41	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB) mRNA
2027	15168	28274	12.98	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
2027	15168	28275	12.98	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
2037	15178	28288	2.11	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
2037	15178	28289	2.11	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
2043	15184	28293	1.93	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
2043	15184	28294	1.93	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
2045	15186	28295	3.24	0.0E+00	AW193024.1	EST_HUMAN	x189b01.x1 NCL CGAP_Pant1 Homo sapiens cDNA clone IMAGE:2879913 3'
2045	15186	28296	3.24	0.0E+00	AW193024.1	EST_HUMAN	x189b01.x1 NCL CGAP_Pant1 Homo sapiens cDNA clone IMAGE:2879913 3'
2046	15187	28297	9.98	0.0E+00	6912457	NT	Homo sapiens calchectin binding protein 1 (KIAA0330), mRNA
2046	15187	28298	9.98	0.0E+00	6912457	NT	Homo sapiens calchectin binding protein 1 (KIAA0330), mRNA
2048	15188	28300	1.53	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2048	15188	28301	1.09	0.0E+00	Z47558.1	NT	H. sapiens genes for semenogelin I and semenogelin II
2048	15188	28302	1.09	0.0E+00	Z47558.1	NT	H. sapiens genes for semenogelin I and semenogelin II
2056	15197	28311	5.04	0.0E+00	AB040945.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
2078	15218	28337	1.85	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2078	15218	28338	1.85	0.0E+00	AF273841.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2109	15247	28368	1.53	0.0E+00	8394546	NT	Homo sapiens chromosome 21 open reading frame 7 (YG81), mRNA
2112	15250	28370	0.98	0.0E+00	7706742	NT	Homo sapiens TP53TG3a (TP53TG3a), mRNA
2117	15255	28374	35.36	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
2117	15255	28375	35.36	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
2119	15257	28376	1.02	0.0E+00	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2121	15258	28378	57.63	0.0E+00	AU140831.1	EST_HUMAN	AU140831 PLACE4 Homo sapiens cDNA clone PLACE4000321 5'
2122	14612	27694	0.97	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2122	14612	27695	0.97	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2124	15260	28380	2.59	0.0E+00	AA077589.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2124	15260	28381	2.59	0.0E+00	AA077589.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2126	15262		3.79	0.0E+00	7857469	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2128	15284		1.48	0.0E+00	4585863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2129	15285	28384	2.9	0.0E+00	Z42398.1	EST_HUMAN	HSC01C021 normalized infant brain cDNA Homo sapiens cDNA clone c-01c02
2131	15287		2.38	0.0E+00	A1244247.1	EST_HUMAN	q16008.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:1988871 3' similar to contains Alu repetitive element;
2136	15272	28393	4.37	0.0E+00	BE877225.1	EST_HUMAN	601485146F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 5'
2138	15274	28395	2.25	0.0E+00	BF315325.1	EST_HUMAN	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2138	15274	28396	2.25	0.0E+00	BF315325.1	EST_HUMAN	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2144	15280	28404	3.6	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2144	15280	28405	3.6	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2152	15288	28414	3.43	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2152	15288	28415	3.43	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2153	15289	28416	1.11	0.0E+00	AJ297709.1	NT	Homo sapiens mRNA for CDC2L5 protein kinase, (CDC2L5 gene), isoform 1
2158	15284	28420	1.18	0.0E+00	4758489	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2162	15298	28423	1.94	0.0E+00	BE500995.1	EST_HUMAN	7a34c02.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3220610 3' similar to SW:DTD_HUMAN
2182	15317		3.17	0.0E+00	BE767964.1	EST_HUMAN	P50443 SULFATE TRANSPORTER;
2183	15318		1.26	0.0E+00	AF018953.1	NT	QV1-GN0065-140800-318-c10 GN0065 Homo sapiens cDNA
2185	15320	28446	4.64	0.0E+00	BF027562.1	EST_HUMAN	Homo sapiens X-linked juvenile retinoschisis protein (XLR51) gene, exon 6 and complete cds
2186	15321	28447	1.5	0.0E+00	BE072624.1	EST_HUMAN	601672066F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5'
2188	15323	28448	1.29	0.0E+00	AF240786.1	NT	PM0-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA
2190	15325	28450	3.41	0.0E+00	AW752708.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2192	15327	28452	6.48	0.0E+00	AI904640.1	EST_HUMAN	IL3-CT0219-271099-022-G10 CT0219 Homo sapiens cDNA
2192	15327	28453	6.48	0.0E+00	AI904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2225	15356		1.08	0.0E+00	7657252	NT	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2249	15382		1.52	0.0E+00	L14781.1	NT	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNNMB3L), mRNA
2259	15392	28518	1.26	0.0E+00	BE274696.1	EST_HUMAN	Homo sapiens DNA-binding protein mRNA, 3' end
2261	15394	28521	0.94	0.0E+00	D87885.1	NT	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346888 5'
2262	15395	28522	23.12	0.0E+00	AV738288.1	EST_HUMAN	Human mRNA for KIAA0244 gene, partial cds
2262	15395	28523	23.12	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBD08 5'
2264	15397	28525	2.57	0.0E+00	AA931591.1	EST_HUMAN	6032601.s1 NCL_CGAP_Lu6 Homo sapiens cDNA clone CBNBD08 5'
2268	15401	28529	24.38	0.0E+00	BF344434.1	EST_HUMAN	602014829F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:1667896 3'
2269	15402	28530	40.14	0.0E+00	BE748899.1	EST_HUMAN	602014829F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4150734 5'
							601572186T1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3839012 3'

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2272	15405	28533	5.56	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2272	15405	28534	5.56	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2276	16059	28539	4.08	0.0E+00	BF313617.1	EST_HUMAN	G01900201F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129822 5'
2279	15411	28542	3.13	0.0E+00	BE018750.1	EST_HUMAN	b884602.Y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-I-RELATED PROTEIN;
2281	15413	28544	1.68	0.0E+00	AA042813.1	EST_HUMAN	z453-c07.s1 Soares_pregnant_uterus NIHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to
2281	15413	28545	1.68	0.0E+00	AA042813.1	EST_HUMAN	gb:X65857.cd1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2289	15421	28553	3.06	0.0E+00	AL163204.2	NT	z453-c07.s1 Soares_pregnant_uterus NIHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to
2289	15421	28554	3.06	0.0E+00	AL163204.2	NT	gb:X65857.cd1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2290	15422	28555	3.72	0.0E+00	7682401	NT	Homo sapiens chromosome 21 segment HS21C004
2290	15422	28556	3.72	0.0E+00	7682401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2295	15427	28558	2.34	0.0E+00	U36264.1	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2295	15427	28559	2.34	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
2296	15428	28561	1.02	0.0E+00	AA282281.1	EST_HUMAN	z12b10.r1 NCI_CGAP_G0B1 Homo sapiens cDNA clone IMAGE:712891 5'
2313	15445	28579	7.82	0.0E+00	4557556	NT	Homo sapiens E7A binding protein p300 (EP300) mRNA
2320	15452	28584	2.63	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2327	15459	28592	3.44	0.0E+00	BE895281.1	EST_HUMAN	G01433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918607 5'
2331	15483	28596	1.51	0.0E+00	BE905663.1	EST_HUMAN	G01495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3887457 5'
2331	15483	28597	1.51	0.0E+00	BE905663.1	EST_HUMAN	G01495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3887457 5'
2333	15484	28599	1.83	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
2375	15506	28632	4.35	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2375	15506	28633	4.35	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2376	15507	28634	2.67	0.0E+00	A076404.1	EST_HUMAN	z209-c07.x1 Soares_fetal_liver_spleen_1NLS_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2378	15509	28636	2.85	0.0E+00	AA428001.1	EST_HUMAN	z178a11.r1 Soares_fetal_tetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2378	15509	28637	2.95	0.0E+00	AA428001.1	EST_HUMAN	z178a11.r1 Soares_fetal_tetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'
2380	15511	28639	1.82	0.0E+00	BF347039.1	EST_HUMAN	G02021846F1 NCI_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4157339 5'
2385	15516	28645	1.33	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2385	15516	28646	1.33	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2388	15517	28647	2.34	0.0E+00	6326466	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2393	15524	28653	2.36	0.0E+00	BE676095.1	EST_HUMAN	7122a02.x1 NCI_CGAP_CELL1 Homo sapiens cDNA clone IMAGE:3296370 3' similar to TR:O94839 O94839 KIAA0857 PROTEIN;
2396	15527	28655	6.46	0.0E+00	AF044571.1	NT	Homo sapiens phosphotyrosine kinase alpha subunit (PHK42) gene, exon 32
2397	15528	28656	2.6	0.0E+00	A1625542.1	EST_HUMAN	ty57c08.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2283182 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2399	15530	28657	1.5	0.0E+00	AB011399.1	NT	Homo sapiens gene for AF-4, complete cds
2402	15533	28659	2.22	0.0E+00	7962401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2402	15533	28660	2.22	0.0E+00	7962401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2405	15536	28663	3.83	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2405	15536	28664	3.83	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2424	15553	28679	3.04	0.0E+00	5174678	NT	Homo sapiens signal regulatory protein, beta, 1 (SRP-BETA-1), mRNA
2428	15556	28683	3.56	0.0E+00	AU131142.1	EST_HUMAN	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP302064 5'
2429	15557	28684	9.82	0.0E+00	BE784026.1	EST_HUMAN	801588843F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3941003 5'
2430	15558	28684	3.96	0.0E+00	7662017	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2431	15559	28685	1.39	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2431	15559	28686	1.39	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2432	15560		7.14	0.0E+00	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
2434	15562	28688	10.61	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2434	15562	28689	10.61	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2434	15562	28690	10.61	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2432	15560		1.03	0.0E+00	BE814424.1	EST_HUMAN	MR0-BN0070-090600-028-d12 BN0070 Homo sapiens cDNA
2485	15612	28735	1.14	0.0E+00	AU119592.1	EST_HUMAN	AU119592 HEMBA1 Homo sapiens cDNA clone HEMBA1006195 5'
2487	15614		4.63	0.0E+00	AID42035.1	EST_HUMAN	ox80b02.x1 Soares NIHMPu, S1 Homo sapiens cDNA clone IMAGE:1660683 3' similar to TR:008662
2489	15616	28737	0.94	0.0E+00	8923620	NT	Homo sapiens typhothelial protein FLJ20693 (FLJ20693), mRNA
2492	15619		1.35	0.0E+00	BE898305.1	EST_HUMAN	801432808F1 NIH_MGC 72 Homo sapiens cDNA clone IMAGE:3918188 5'
2503	15630		2.22	0.0E+00	AB005622.1	EST_HUMAN	AB005622 HeLa cDNA (T.Noma) Homo sapiens cDNA similar to adenylate kinase isozyme 2
2505	15632	28752	6.05	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A), mRNA
2510	15636	28759	1.99	0.0E+00	D86606.1	NT	Homo sapiens gene for cholesteryltransferin type-A receptor, complete cds
2510	15636	28757	1.99	0.0E+00	D86606.1	NT	Homo sapiens gene for cholesteryltransferin type-A receptor, complete cds
2520	15646	28769	2.42	0.0E+00	AF106275.1	NT	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2524	15649	28773	0.96	0.0E+00	BF345274.1	EST_HUMAN	802018058F1 NCI_CGAP_B1967 Homo sapiens cDNA clone IMAGE:4153670 5'
2530	15655	28780	3.84	0.0E+00	5729777	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2538	15663	28786	1.02	0.0E+00	U13668.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2538	15663	28787	1.02	0.0E+00	U13668.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2539	15664	28788	28.11	0.0E+00	BF569144.1	EST_HUMAN	802184581F1 NIH_MGC 42 Homo sapiens cDNA clone IMAGE:4300363 3'
2547	15672	28796	4.18	0.0E+00	AW46622.1	EST_HUMAN	ha04h04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2550	15675	28798	3.03	0.0E+00	AW501010.1	EST_HUMAN	U1-HF-BPOp-als-c07-0-U1st NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072780 5'
2578	15700	28800	2.02	0.0E+00	AW513853.1	EST_HUMAN	RC3-ST0107-300300-016-c04-ST0107 Homo sapiens cDNA
2578	15704	28824	7.28	0.0E+00	BE795542.1	EST_HUMAN	601592530F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946318 5'
2579	15735	28241	1.12	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
2580	15705	28825	1.44	0.0E+00	BF506482.1	EST_HUMAN	U1-H-B14-azoz-b-08-0-U1st NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086535 3'
2583	15708	28827	2.21	0.0E+00	Z32884.2	NT	Homo sapiens mRNA for membrane transport protein (XK gene)
2585	15710	28830	5.17	0.0E+00	5453871	NT	Homo sapiens platelet-derived growth factor receptor-like (PDGFR) mRNA
2587	15712	28830	1.07	0.0E+00	BE910378.1	EST_HUMAN	801503356F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3905148 5'
2588	15713	28831	2.39	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2589	15714	28832	3.09	0.0E+00	U93239.1	NT	Human Sec62 (Sec62) mRNA, complete cds
2595	15720	28838	1.86	0.0E+00	BE868490.1	EST_HUMAN	601508211F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3903886 5'
2598	15722	28842	13.07	0.0E+00	BE875511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2598	15722	28843	13.07	0.0E+00	BE875511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2599	15723	28844	1.12	0.0E+00	AF245505.1	NT	Homo sapiens edicacin mRNA, complete cds
2618	15740	28852	1.83	0.0E+00	BE636921.1	EST_HUMAN	601084738F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451161 5'
2623	15746	28860	3.86	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2623	15746	28861	3.86	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2624	15747	28862	1.26	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2987955 5'
2624	15747	28863	1.25	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2987955 5'
2625	15748	28864	1.04	0.0E+00	BF223041.1	EST_HUMAN	7c27h12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3' similar to TR-O00246 O00246 HYPOTHETICAL 9.3 KD PROTEIN ;
2628	15751	28865	8.3	0.0E+00	AF245505.1	NT	Homo sapiens edicacin mRNA, complete cds
2664	16000	28901	2.18	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2664	16000	28902	2.18	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2665	15786	28912	2.35	0.0E+00	BF613835.1	EST_HUMAN	U1-H-BW1-amp-p-12-0-U1st NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070831 3'
2675	15795	28912	32.6	0.0E+00	BF204131.1	EST_HUMAN	601869073F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111411 5'
2676	15795	28913	32.6	0.0E+00	BF204131.1	EST_HUMAN	601869073F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111411 5'
2678	15798	28915	2.15	0.0E+00	AB037742.1	NT	Homo sapiens mRNA for KIAA1321 protein, partial cds
2679	15799	28916	2.52	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF2)
2681	15801	28918	8.53	0.0E+00	AB037859.1	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2682	15802	28919	1.16	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2682	15802	28920	1.16	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2680	15810		2.75	0.0E+00	BE792472.1	EST_HUMAN	601584930F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939222 5'

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2700	15819	28935	2.52	0.0E+00	4504686	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
2710	15828		1.16	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2711	15829	28942	5.67	0.0E+00	AF173227.1	NT	Homo sapiens guanylate cyclase-activating protein 2 (GUCY1B) gene, exon 1
2715	15833	28943	1.07	0.0E+00	AB011108.1	NT	Homo sapiens mRNA for KIAA0536 protein, partial cds
2718	15838	28946	0.96	0.0E+00	AU133385.1	EST_HUMAN	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001964 5'
2721	15839	28949	1.15	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2721	15839	28950	1.16	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2724	15842	28953	1.66	0.0E+00	AW887015.1	EST_HUMAN	RC1-OT0066-220300-011-d07 OT0066 Homo sapiens cDNA
2727	15845	28956	4.83	0.0E+00	BE393185.1	EST_HUMAN	601288714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'
2728	15846		2.8	0.0E+00	BE531263.1	EST_HUMAN	601278373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610287 5'
2763	15878	28987	1	0.0E+00	AB037322.1	NT	Homo sapiens mRNA for KIAA1311 protein, partial cds
2786	15901		11.99	0.0E+00	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2789	15905	29013	4.04	0.0E+00	U36253.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 5
2791	15907	29015	3.72	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
2792	15908	29016	2.32	0.0E+00	AB051826.1	NT	Homo sapiens hG28K mRNA for GTP-binding protein like 1, complete cds
2797	15912	29020	11.38	0.0E+00	BE796376.1	EST_HUMAN	601591991F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946983 5'
2800	16072	29024	17.3	0.0E+00	BE563433.1	EST_HUMAN	601335486F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689584 5'
2801	15915		3.28	0.0E+00	AV721647.1	EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 5'
2803	15917	29027	2.18	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2803	15917	29028	2.18	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2804	15918	29029	2.21	0.0E+00	AF290195.1	NT	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2805	15919		47.74	0.0E+00	AF651036.1	EST_HUMAN	AV651065 GLC Homo sapiens cDNA clone GLCCLD07 3'
2806	15920	29030	5.84	0.0E+00	BF377897.1	EST_HUMAN	GMT-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2806	15920	29031	5.84	0.0E+00	BF377897.1	EST_HUMAN	GMT-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2810	15924	29034	1.15	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2810	15924	29035	1.15	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2813	15927	29039	21.96	0.0E+00	BE747193.1	EST_HUMAN	601580903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929472 5'
2814	15928		1.05	0.0E+00	N44974.1	EST_HUMAN	y35h10.11 Soares melanocyte 2N8HM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR-A45773
2816	15930	29042	1.15	0.0E+00	BE176836.1	EST_HUMAN	A45773 leish protein, long form - fruit fly
2827	15941		1.13	0.0E+00	AL163201.2	NT	RC4-HT0587-170300-012-d11 HT0587 Homo sapiens cDNA
2828	15942	29052	3.19	0.0E+00	BF514110.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C001
							UI-H-BW1-arnw-e-07-UJ1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071340 3'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2835	15949		1.67	0.0E+00	4503098	NT	Homo sapiens chondroin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2841	15955	28062	1.06	0.0E+00	7705275	NT	Homo sapiens angiodieth-3 (ANG-3), mRNA
2841	15955	28063	1.06	0.0E+00	7705275	NT	Homo sapiens angiodieth-3 (ANG-3), mRNA
2842	15956	28064	5.05	0.0E+00	BF677694.1	EST_HUMAN	602085570F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249815 5'
2848	15962	28072	1.33	0.0E+00	7427622	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
2852	15966	28075	17.21	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2852	15966	28076	17.21	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 5'
2854	15968		14.75	0.0E+00	A1879163.1	EST_HUMAN	au5504.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518663 5' similar to SW-R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L13A:
2857	15971	28081	2.14	0.0E+00	BF630661.1	EST_HUMAN	602071957F1 NCL CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4214679 5'
2858	15972	28082	71.97	0.0E+00	BE972768.1	EST_HUMAN	601450912F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3854942 5'
2860	15974	28083	2.42	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2860	15974	28084	2.42	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'
2861	15975	28085	64.06	0.0E+00	BE900344.1	EST_HUMAN	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806 5'
2861	15975	28086	64.06	0.0E+00	BE900344.1	EST_HUMAN	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806 5'
2867	13415	28444	5.26	0.0E+00	S76930.1	NT	glycoprotein D=Duffy group antigen [human, blood, Genomic DNA, 3068 nt]
2870	15982		1.64	0.0E+00	AB033281.1	NT	Homo sapiens BTRCP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2876	13933	28978	1.89	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2876	13933	28979	1.89	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2880	14230	27287	2.04	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2880	14230	27288	2.04	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2897	16076	28094	3.79	0.0E+00	X85980.1	NT	H. sapiens serine hydroxymethyltransferase pseudogene
2898	16077		1.26	0.0E+00	AF068624.1	NT	Homo sapiens 5-aminolevulinate synthase 2 (ALAS2) gene, complete cds
2900	16079		1.91	0.0E+00	AB040960.1	NT	Homo sapiens mRNA for KIAA1627 protein, partial cds
2907	16085	28099	4.25	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2911	16089	29102	6.5	0.0E+00	M80902.1	NT	Human AHNAX nucleoprotein mRNA, 5' end
2914	16092	29104	0.93	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281298-003-e02 HT0343 Homo sapiens cDNA
2914	16092	28105	0.93	0.0E+00	BE154504.1	EST_HUMAN	PMO-HT0343-281298-003-e02 HT0343 Homo sapiens cDNA
2916	16094		2.05	0.0E+00	X73428.1	NT	H. sapiens l33 gene for HLH type transcription factor
2918	16096		2.9	0.0E+00	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
2919	16097	28108	1.3	0.0E+00	7019384	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2919	16097	28109	1.3	0.0E+00	7019384	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2919	16097	29110	1.3	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2921	16099	29111	15.94	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
2926	15103	29117	30.49	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2928	15103	29118	30.49	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2928	15106	29121	3.42	0.0E+00	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2930	16107		6.12	0.0E+00	Y10658.1	NT	H. sapiens mRNA for nuclear DNA Helicase II
2931	16108		1.13	0.0E+00	AF152303.1	NT	Homo sapiens protocadherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds
2932	16109	29122	74.83	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2932	16109	29123	74.83	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2944	16121	29134	2.54	0.0E+00	4607280	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2947	16124	29138	1.19	0.0E+00	AL047599.1	EST_HUMAN	Homo sapiens sarin/threonine kinase 9 (STK9) mRNA
2948	16125	29139	0.96	0.0E+00	7661883	NT	DKFZp568G0821.1 588 (synonym: hute1) Homo sapiens cDNA clone DKFZp568G0821
2948	16125	29140	0.96	0.0E+00	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2949	16126		2.44	0.0E+00	4503058	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2952	16129	29142	5.16	0.0E+00	BE081893.1	EST_HUMAN	QV2-BT0636-130400-138-H03 BT0636 Homo sapiens cDNA
2952	16129	29143	5.16	0.0E+00	BE081893.1	EST_HUMAN	QV2-BT0636-130400-138-H03 BT0636 Homo sapiens cDNA
2958	16135	29151	0.77	0.0E+00	6805918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
2958	16135	29152	0.77	0.0E+00	6805918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
2961	16138	29156	2.3	0.0E+00	AL163205.2	NT	Homo sapiens chromosome 21 segment HS21C006
2961	16138	29157	2.3	0.0E+00	AL163205.2	NT	Homo sapiens chromosome 21 segment HS21C006
2962	16139	29158	1.3	0.0E+00	AA215579.1	EST_HUMAN	z96b11.s1 NCI_CGAP_G0C81 Homo sapiens cDNA clone IMAGE583517 3' similar to contains Alu repetitive element
2969	16145		3.99	0.0E+00	Y19210.1	NT	Homo sapiens hHb5 gene for hair keratin, exons 1 to 9
2972	16148	29167	1.05	0.0E+00	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
2974	16150	29170	25.96	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2975	16151	29171	1.15	0.0E+00	AI561002.1	EST_HUMAN	tr18407.x1 NCI_CGAP_Bn25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247
2976	16151	29172	1.15	0.0E+00	AI561002.1	EST_HUMAN	O16247 F4E7.2 PROTEIN. ;
2977	16153	29174	1.18	0.0E+00	P52740	SWISSPROT	tr18407.x1 NCI_CGAP_Bn25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247
2978	16154	29175	1.04	0.0E+00	AF152338.1	NT	ZINC FINGER PROTEIN 132
2994	16170	29187	3.4	0.0E+00	AB033093.1	NT	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2994	16170	29188	3.4	0.0E+00	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2995	16171	29189	6.2	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds

Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2895	16171	29190	6.2	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1608 protein, partial cds
2898	16174	29193	3.31	0.0E+00	7681903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2898	16174	29194	3.31	0.0E+00	7681903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2899	16175	29195	4.93	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) homolog); translocated to, 4 (MLLT4) mRNA
2899	16175	29196	4.93	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) homolog); translocated to, 4 (MLLT4) mRNA
3003	16178	29199	1.29	0.0E+00	BF110702.1	EST_HUMAN	744003.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1
3003	16178	29200	1.29	0.0E+00	BF110702.1	EST_HUMAN	744003.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1
3011	16187	29211	3.91	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
3011	16187	29212	3.91	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
3019	16195	29218	1.51	0.0E+00	4758827	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
3022	16198	29221	0.98	0.0E+00	AB033034.1	NT	Homo sapiens neurxin III (NRXN3) mRNA
3024	16200	29223	9.6	0.0E+00	AF106273.1	NT	Homo sapiens mRNA for KIAA1208 protein, partial cds
3038	16214	29223	1.44	0.0E+00	AF106273.1	EST_HUMAN	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
3045	16221	29242	0.71	0.0E+00	AF281074.1	NT	qf43f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
3045	16221	29243	0.71	0.0E+00	AF281074.1	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
3046	16222	29244	0.92	0.0E+00	4506118	NT	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced
3047	16223	29245	2.81	0.0E+00	AB004894.1	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
3057	16233	29252	1.85	0.0E+00	7662273	NT	Homo sapiens mRNA for PKU-alpha, partial cds
3058	16234	29253	1.92	0.0E+00	AW612526.1	EST_HUMAN	Homo sapiens KIAA0737 gene product (KIAA0737), mRNA
3059	16235	29254	2.4	0.0E+00	5729755	NT	h03f08.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2854055 3' similar to TR:O60407 O60407
3059	16235	29255	2.4	0.0E+00	5729755	NT	PAC CLONE DJ1168D11 FROM 7P21-P22, COMPLETE SEQUENCE :
3067	16243	29263	1.17	0.0E+00	AF114488.1	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
3067	16243	29264	1.17	0.0E+00	AF114488.1	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
3067	16243	29264	1.17	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3061	16267	29285	0.61	0.0E+00	AL163246.2	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3063	16269	29285	1.29	0.0E+00	M74099.1	NT	Homo sapiens chromosome 21 segment HS21C048
3102	16278	29292	0.88	0.0E+00	4505882	NT	Human displacement protein (CCAT) mRNA
3109	16285	29293	3.93	0.0E+00	AF195953.1	NT	Homo sapiens semenogelin I (SEMG1) mRNA
3112	16288	29303	4.9	0.0E+00	5579469	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
3112	16288	29304	4.9	0.0E+00	5579469	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3112	16288	29304	4.9	0.0E+00	5579469	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3114	16290		7.27	0.0E+00	AL359403.1	NT	isoform 2 of a novel human mRNA from chromosome 22
3119	16295	29309	1.88	0.0E+00	AF017433.1	NT	Homo sapiens putative transcription factor CR63 (GR63) mRNA, partial cds
3122	16298		2.21	0.0E+00	AF196779.1	NT	Homo sapiens transcription factor (GHM) enhancer 3, JM11 protein, JM4 protein, JM5 protein, T64 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synapophysin genes, complete cds; and L-type calcium channel $\alpha 2$
3124	16300	29313	3.78	0.0E+00	4504964	NT	Homo sapiens interleukin 2 receptor, beta (L2RB) mRNA
3145	16321	29333	3.23	0.0E+00	X03529.1	NT	Human germline gene 16.1 for Ig lambda L-chain C region (Ig-LC16.1)
3151	16328		1.92	0.0E+00	AF199355.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3155	16330	29340	1.75	0.0E+00	AF064589.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3175	16350	29356	4.71	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3178	16351	29357	10.17	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
3181	16355	29361	3.92	0.0E+00	7662139	NT	Homo sapiens KIAA0469 gene product (KIAA0469) mRNA
3182	16357	29362	1.20	0.0E+00	AF042075.1	NT	Homo sapiens olfactory receptor-like protein (OLFR 42B) gene, OLFR 42B-9110 allele, partial cds
3187	16362	29368	1.19	0.0E+00	AW188146.1	EST_HUMAN	x82h07.x1 Soares, NFL, I, GBC, S1 Homo sapiens cDNA clone IMAGE:2864733 3' similar to SW-RNP_HYDHY P00877 RIBONUCLEASE PANCREATIC:
3210	16384	29395	3.61	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3219	16393	29404	20.83	0.0E+00	L20941.1	NT	Human ferritin heavy chain mRNA, complete cds
3222	16396	29407	1.05	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3222	16396	29408	1.05	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3229	16403	29415	25.61	0.0E+00	T94970.1	EST_HUMAN	yes3263.e1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:119453 3' similar to SP:S29539
3244	16418	29433	0.93	0.0E+00	BF243336.1	EST_HUMAN	S29539 BASIC PROTEIN, 23K -;
3246	16419	29434	1.22	0.0E+00	AI988086.1	EST_HUMAN	601878507F1 NIH_MGC 55 Homo sapiens cDNA clone IMAGE:4107433 5'
3250	16424	29441	5.36	0.0E+00	X98922.1	NT	wu12h10.x1 NCL CGAP CG8 Homo sapiens cDNA clone IMAGE:2518903 3'
3250	16424	29442	5.36	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3252	16426	29444	1.01	0.0E+00	AI685950.1	EST_HUMAN	H. sapiens mRNA for gamma-glutamyltransferase
3262	16436	29455	1.39	0.0E+00	4758827	NT	P03967 RAS-LIKE PROTEIN RASD ;
3262	16436	29456	1.39	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
3270	16444	29464	9.58	0.0E+00	4504658	NT	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA
3268	16462	29482	4.54	0.0E+00	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
3292	16466	29485	1.92	0.0E+00	4502098	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA

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Single Exon Probes Expressed in Placenta

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3298	16472	29493	0.76	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3298	16472	29494	0.76	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3300	16474	29495	26.49	0.0E+00	AA774783.1	EST_HUMAN	ae87b11.s1 Striatum schizo brain S11 Homo sapiens cDNA clone IMAGE:971133 3'
3308	16482	29503	8.38	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3308	16482	29504	8.38	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3320	16493	29610	3.04	0.0E+00	4657590	NT	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA
3328	16499	29617	1.01	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3334	16507		10.18	0.0E+00	M65180.1	NT	Human connexin 43 processed pseudogene
3335	16508	29624	0.95	0.0E+00	AF019413.1	NT	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2W), RD, complement factor B (Bf), and complement component C2 (C2) genes.>
3338	16511	29627	4.08	0.0E+00	AF055084.1	NT	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds
3346	16464	29535	1.34	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3348	16494	29538	1.34	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3363	16535	29549	3.56	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3364	16536	29550	0.95	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20895 (FLJ20895), mRNA
3377	16549	29563	1.42	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3388	16558	29573	0.72	0.0E+00	4885312	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
3401	16571	29589	3.14	0.0E+00	AI589294.1	EST_HUMAN	t6808.x2 NCL CGAP_Par1 Homo sapiens cDNA clone IMAGE:222635 3' similar to SW:RL11_RAT
3404	16574	29589	9.94	0.0E+00	AW955400.1	EST_HUMAN	P25121 60S RIBOSOMAL PROTEIN L11, contains Alu repetitive element;
3412	16581	29596	2.41	0.0E+00	AF128893.1	NT	EST367470 IMAGE: reverse transcriptase, MAGD Homo sapiens cDNA
3412	16581	29597	2.41	0.0E+00	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-8
3413	16582	29598	1.03	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-8
3413	16582	29599	1.03	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3416	16585	29601	1.29	0.0E+00	4502582	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3416	16585	29602	1.29	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3419	16588	29604	11.92	0.0E+00	AF111163.1	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3421	16590	29606	1.02	0.0E+00	AB040940.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
3428	16596	29612	0.79	0.0E+00	BE776039.1	EST_HUMAN	Homo sapiens mRNA for KIAA1607 protein, partial cds
3441	16609	29627	0.67	0.0E+00	AI632566.1	EST_HUMAN	Homo sapiens mRNA for KIAA1607 protein, partial cds
3483	16651	29667	10	0.0E+00	AU123664.1	EST_HUMAN	601464955F1 NIH_MGC_07.Homo sapiens cDNA clone IMAGE:3868246 5'
3492	16658	29671	1.16	0.0E+00	7706239	NT	ZINC FINGER PROTEIN. ;
							wb10904.x1 NCL CGAP_G038 Homo sapiens cDNA clone IMAGE:2305279 3' similar to TR:Q91928 Q91928
							AU123664 NT2RM2 Homo sapiens cDNA clone NT2RM2000735 5'
							Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3493	16680	29672	1.26	0.0E+00	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1L1-a isoform (CACNA1L) mRNA, complete cds
3498	16685		0.94	0.0E+00	AW867015.1	EST_HUMAN	MR1-SN0033-100400-001-c08 SN0033 Homo sapiens cDNA
3511	16677	29687	2.02	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3511	16677	29688	2.02	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3512	16678	29689	0.92	0.0E+00	4602398	NT	Homo sapiens beaded filament structural protein 1, filenin (BFSP1) mRNA
3514	16680	29690	2.35	0.0E+00	5803067	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA
3523	15907	29016	3.08	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL-1) gene, complete cds
3528	16693	29703	2.46	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3532	16697	29708	5.5	0.0E+00	K02380.1	NT	Bacteriophage P1 replication region including repA, parA, and parB genes and IncA, IncB, and IncC incompatibility determinants
3535	16700	29711	1.38	0.0E+00	7427822	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
3538	16703	29714	1.83	0.0E+00	4557746	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET) mRNA
3544	16709	29719	4.17	0.0E+00	AI935159.1	EST_HUMAN	wp14d10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR:O73634 O73634 NEURAL CELL ADHESION MOLECULE ;
3544	16709	29720	4.17	0.0E+00	AI935159.1	EST_HUMAN	wp14d10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR:O73634 O73634 NEURAL CELL ADHESION MOLECULE ;
3548	16713	29725	1.91	0.0E+00	AJ276120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
3555	16720	29734	5.38	0.0E+00	6552332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3555	16720	29735	5.38	0.0E+00	6552332	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3560	16725	29741	1.41	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
3566	16731	29747	5.78	0.0E+00	U43293.1	NT	Human MDS1A (AML1/MDST fusion) mRNA, partial cds
3574	16739	29755	2.67	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3574	16739	29756	2.67	0.0E+00	AF045452.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3582	16747	29765	1.18	0.0E+00	AF231922.1	NT	Homo sapiens chromosome 21 unknown mRNA
3584	16758	29773	3.29	0.0E+00	BE304791.1	EST_HUMAN	601143953F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3594	16758	29774	3.29	0.0E+00	BE304791.1	EST_HUMAN	601143953F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3597	16761	29777	1.04	0.0E+00	4826795	NT	Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNE2) mRNA
3600	16764	29780	0.8	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
3603	16767	29782	0.89	0.0E+00	AI384007.1	EST_HUMAN	te359g12.x1 Soares_NihMP_L_S1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR:O00493 O00498 MYASTHENIA GRAVIS AUTOANTIGEN GRAVIN ;
3621	16785	29801	0.6	0.0E+00	AB032979.1	NT	Homo sapiens mRNA for KIAA1153 protein, partial cds
3621	16785	29802	0.6	0.0E+00	AB032979.1	NT	Homo sapiens mRNA for KIAA1153 protein, partial cds

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3623	16787	29803	0.68	0.0E+00	AA456282.1	EST_HUMAN	z69h04.1 Scores_NHMPu_S1 Homo sapiens cDNA clone IMAGE:811927 5'
3623	16787	29804	0.68	0.0E+00	AA456282.1	EST_HUMAN	z69h04.1 Scores_NHMPu_S1 Homo sapiens cDNA clone IMAGE:811927 5'
3630	16794	29811	1.45	0.0E+00	AV701869.1	EST_HUMAN	AV701869 AD8 Homo sapiens cDNA clone ADBDAH08 5'
3631	16795	29812	4.48	0.0E+00	4508884	NT	Homo sapiens semenogelin II (SEMG2) mRNA
3633	16797		1.17	0.0E+00	AF078868.1	NT	Homo sapiens homologous yeast-44.2 protein mRNA, complete cds
3642	16806	29820	1.34	0.0E+00	AL133204.1	NT	Novel human gene mapping to chromosome X
3644	16807	29821	1.16	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3665	16828	29837	0.97	0.0E+00	6997248	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3666	16828	29838	0.97	0.0E+00	6997248	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3667	16830	29841	1.06	0.0E+00	6325463	NT	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3672	16835		4.28	0.0E+00	AW852217.1	EST_HUMAN	QV0-C10225-230300-168-e01 CT0225 Homo sapiens cDNA
3679	16842		1.28	0.0E+00	AF118846.1	NT	Homo sapiens gamma-glutamylcysteine synthetase (GLCLC) gene, partial cds
3680	16843	29850	7.65	0.0E+00	BF676393.1	EST_HUMAN	602084589F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248598 5'
3704	16865	29869	0.59	0.0E+00	BF672054.1	EST_HUMAN	602152486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293645 5'
3705	16866		0.99	0.0E+00	4828987	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3707	16868	29871	0.76	0.0E+00	AW684693.1	EST_HUMAN	hi84g01.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978024 3'
3711	16872	29876	0.89	0.0E+00	4828763	NT	hi84g01.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978024 3'
3713	16874	29878	0.93	0.0E+00	7662319	NT	Homo sapiens heparan sulfide (glucosamine) 3-O-sulfotransferase 1 (HS3ST1) mRNA
3720	16881	29886	0.74	0.0E+00	4557752	NT	Homo sapiens midline 1 (Opt2/BBB syndrome) (MID1) mRNA
3720	16881	29887	0.74	0.0E+00	4557752	NT	Homo sapiens midline 1 (Opt2/BBB syndrome) (MID1) mRNA
3737	16898	29901	2.36	0.0E+00	D87327.1	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
3741	16902		6.29	0.0E+00	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
3757	16918	29920	3.98	0.0E+00	AB026542.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
3759	16920	29922	1.06	0.0E+00	AB007866.2	NT	Homo sapiens mRNA for KIAA0408 protein, partial cds
3761	16922	29923	5.16	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3781	16922	29924	5.16	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3767	16928	29932	32.49	0.0E+00	AA852743.1	EST_HUMAN	NHTBCae15g09f1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBCae15g09
3767	16928	29933	32.49	0.0E+00	AA852743.1	EST_HUMAN	NHTBCae15g09f1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBCae15g09
3770	16931	29935	1.95	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3770	16931	29936	1.95	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3771	16932	29937	0.99	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
3771	16932	29938	0.99	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
3774	16935	29941	2.4	0.0E+00	AW651714.1	EST_HUMAN	MR2-CT0222-281099-005-e05 CT0222 Homo sapiens cDNA
3776	16937	29943	2.37	0.0E+00	573928	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3778	16939	29945	1.15	0.0E+00	AB018339.1	NT	Homo sapiens mRNA for KIAA0796 protein, partial cds
3780	16941	29947	0.74	0.0E+00	O14867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
3782	16943	29949	1.02	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3782	16943	29950	1.02	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3794	16955	29959	5.42	0.0E+00	AW298134.1	EST_HUMAN	UI-H-BWO-ajs-e-12-0-UI.s1 NC1_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3794	16955	29960	5.42	0.0E+00	AW298134.1	EST_HUMAN	UI-H-BWO-ajs-e-12-0-UI.s1 NC1_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3823	16983	29986	1.04	0.0E+00	AB004630.1	NT	Human gene for Type XIX collagen a1 chain, exon 6
3824	16984	29987	1.17	0.0E+00	AA463659.1	EST_HUMAN	aa06g01.1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:812496 5' similar to SW:KRBA_SHEEP_P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIB4. [1]
3831	16991	29993	3.23	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3841	17000	30003	0.83	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3856	17015	30015	5.72	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3859	17019	30018	18.03	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2), mRNA
3866	17025	30023	1.52	0.0E+00	7667065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3866	17025	30024	1.52	0.0E+00	7667065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3869	17028	30027	8.94	0.0E+00	4505594	NT	Homo sapiens plasminogen activator inhibitor, type II (arginine-serpin) (PAI2) mRNA
3922	17081	30077	1.96	0.0E+00	AF145712.1	NT	Homo sapiens soluble neuropilin-1 mRNA, complete cds
3924	17083		0.73	0.0E+00	AF195558.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
3925	17084	30079	2.36	0.0E+00	AF179733.1	NT	Pan troglodytes olfactory receptor (PTR208) gene, partial cds
3928	17087	30083	2.36	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3928	17087	30084	2.36	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3929	17088	30085	1.74	0.0E+00	AF020091.1	NT	Homo sapiens smooth muscle myosin heavy chain SM1 mRNA, alternatively spliced, partial cds
3935	17094	30092	1.05	0.0E+00	AF127851.1	NT	Gorilla gorilla olfactory receptor (GGO71) gene, partial cds
3935	17094	30093	1.05	0.0E+00	AF127851.1	NT	Gorilla gorilla olfactory receptor (GGO71) gene, partial cds
3936	17095	30094	1.29	0.0E+00	AF137699.1	EST_HUMAN	tes210.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2091307 3'
3937	17098		1	0.0E+00	AF152498.1	NT	Homo sapiens protocadherin beta 3 (PCDH-beta3) mRNA, complete cds
3938	17097	30095	2.6	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DPL) (DSP) mRNA
3940	17099	30096	15.6	0.0E+00	S78685.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6(BIR1) gene, complete cds
3942	17101	30098	2.14	0.0E+00	7710148	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3943	17102	30089	1.78	0.0E+00	7662183	NT	Homo sapiens KIA00569 gene product (KIA00569), mRNA
3946	17105	30101	1.62	0.0E+00	AF089601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3946	17105	30102	1.62	0.0E+00	AF089601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3951	17109	30107	1.02	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3951	17109	30108	1.02	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEM1 and PWP2, complete and partial cds
3952	17110	30109	0.9	0.0E+00	0912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3957	17115	30117	6.96	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3957	17115	30118	6.96	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3959	17117	30121	4.85	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134 mRNA, complete cds
3960	17118	30122	1.12	0.0E+00	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
3963	17121	30124	1.23	0.0E+00	4928783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3966	17124	30127	1.44	0.0E+00	AF012615.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11
3967	17125	30128	2.87	0.0E+00	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRP129), mRNA
3969	17127	30130	0.77	0.0E+00	AF098117.1	NT	Homo sapiens amphiphysin gene, partial cds
3970	17138	30140	3.22	0.0E+00	AB64727.1	EST_HUMAN	wk0101.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411065 3' similar to TR:O43340
3980	17137	30141	1.03	0.0E+00	AL163248.2	NT	O43340 R28830_2, contains element PTR7 repetitive element;
3983	17140	30145	18.17	0.0E+00	4506742	NT	Homo sapiens chromosome 21 segment HS21C048
3988	17145	30151	1.33	0.0E+00	AL040338.1	EST_HUMAN	Homo sapiens ribosomal protein S8 (RPS8), mRNA
3994	17151	30156	1.9	0.0E+00	6005887	NT	DKFZp434N0413.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0413 5'
3994	17151	30159	1.9	0.0E+00	6005887	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3996	17153	30161	3.94	0.0E+00	4504138	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3997	17164	30167	2.26	0.0E+00	4505078	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3) mRNA
4001	17168	30164	0.97	0.0E+00	AF149412.1	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1) mRNA
4013	17170	30176	2.65	0.0E+00	4506758	NT	Homo sapiens HBP17 heparin-binding and FGF-binding protein gene, complete cds
4017	17174	30182	1.9	0.0E+00	4585642	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
4026	17182	30191	6.14	0.0E+00	BF355265.1	EST_HUMAN	Homo sapiens zinc finger protein (KIA00412) mRNA
4028	17184	30193	1.37	0.0E+00	AW888221.1	EST_HUMAN	RC3-H170860-170860-011-a12 HT0860 Homo sapiens cDNA
4028	17184	30194	1.37	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
4035	17191	30201	3.05	0.0E+00	AF129533.1	NT	Matrix remodelling associated gene 5
4038	17194	30204	1.14	0.0E+00	U86281.1	NT	Matrix remodelling associated gene 5
							Homo sapiens F-box protein Fbx3b (FBL3B) mRNA, partial cds
							Homo sapiens olfactory receptor (OR7-141) gene, partial cds

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4038	17194	30205	1.14	0.0E+00	U86281.1	NT	Homo sapiens olfactory receptor (OR7-141) gene, partial cds
4042	17196	30209	3.47	0.0E+00	BE378902.1	EST_HUMAN	601236966F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608800 5'
4043	17199	30210	1.2	0.0E+00	BE313146.1	EST_HUMAN	601153727F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3608743 5'
4051	17207	30217	1.28	0.0E+00	AW580740.1	EST_HUMAN	PM3-LT0031-100100-003-109 LT0031 Homo sapiens cDNA
4052	17208	30218	1.03	0.0E+00	5380215	NT	Homo sapiens iduronate 2-sulfatase (Hunter syndrome) (IDS), transcript variant 1, mRNA
4077	17233	30238	0.8	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4077	17233	30239	0.8	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4077	17233	30240	0.8	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4084	17239	30244	9.31	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
4084	17239	30245	9.31	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
4093	17248		3.51	0.0E+00	M23910.1	NT	Human MHG class II lymphocyte antigen DPw4-beta-2 pseudogene, exon 2
4095	17250		7.25	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
4104	17258	30258	2.93	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4112	17266	30266	2.13	0.0E+00	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
4127	17281		111.8	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4134	17287		0.99	0.0E+00	AI657076.1	EST_HUMAN	t85g08.x1 NC1_CGAP_G06 Homo sapiens cDNA clone IMAGE:2244734 3' similar to TR:060309 O60309 KIAA0563 PROTEIN.
4137	17289	30284	1.91	0.0E+00	7862183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4138	17290	30285	2.85	0.0E+00	U08963.1	NT	Human zinc finger protein ZNF133
4157	17308	30304	6	0.0E+00	AB015610.1	NT	Chlorocebus ethiops mRNA for ribosomal protein S4X, complete cds
4166	17316		3.22	0.0E+00	AJ238617.1	NT	Homo sapiens mRNA for UGA suppressor RNA-associated antigenic protein (RNA48 gene)
4177	17327	30318	1.58	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4178	17328	30319	2.68	0.0E+00	AJ27276.1	NT	Homo sapiens mRNA for rpe-2 (rpe gene)
4178	17328	30320	2.68	0.0E+00	AJ27276.1	NT	Homo sapiens mRNA for rpe-2 (rpe gene)
4185	17335	30327	8.33	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4185	17335	30328	8.33	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4194	17344	30337	0.64	0.0E+00	4503914	NT	Homo sapiens phosphoribosylpyrimidine formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase (GART) mRNA
4202	17351	30343	6.02	0.0E+00	4985306	NT	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4203	17352	30344	11.98	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4206	17355	30345	1.26	0.0E+00	4759807	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
4207	17356	30346	7.08	0.0E+00	11419297	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
4208	17357	30347	4.33	0.0E+00	AL089667.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4209	17358		0.98	0.0E+00	AA018975.1	EST_HUMAN	ze55a09.t1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:362820 5' similar to contains Alu repetitive element
4218	17367	30356	5.32	0.0E+00	AF165527.1	NT	Homo sapiens DGCR8 (DGCR8) mRNA, complete cds
4227	14319	27373	0.7	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4227	14319	27374	0.7	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4234	17381	30369	1.32	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
4234	17381	30370	1.32	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
4238	17384	30372	0.84	0.0E+00	4506884	NT	Homo sapiens semenogelin II (SEMG2) mRNA
4238	17384	30373	0.81	0.0E+00	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4244	17390	30377	0.85	0.0E+00	8922391	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
4252	17398	30388	5.57	0.0E+00	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
4252	17398	30387	5.57	0.0E+00	AB020702.1	EST_HUMAN	wu04d04.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2515975 3'
4265	17400	30389	1	0.0E+00	BE184856.1	EST_HUMAN	MR1-H1T0707-100500-001-a02 HT0707 Homo sapiens cDNA
4265	17400	30390	1	0.0E+00	BE184856.1	EST_HUMAN	MR1-H1T0707-100500-001-a02 HT0707 Homo sapiens cDNA
4268	17404		5.89	0.0E+00	BE274217.1	EST_HUMAN	MR1-H1T0707-100500-001-a02 HT0707 Homo sapiens cDNA
4268	17404	30398	2.07	0.0E+00	5729725	NT	60120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2987690 5'
4272	17417		5.76	0.0E+00	AW875599.1	EST_HUMAN	Homo sapiens nuclear receptor coactivator 3 (NGO3), mRNA
4277	17422	30410	1.12	0.0E+00	AW408788.1	EST_HUMAN	ba5104.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900085 3' similar to SW:TH12_BOVIN Q95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR ;
4278	17423	30411	1.55	0.0E+00	8922468	NT	UI-HF-BM0-adv-c-02-U1 r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063147 5'
4278	17423	30412	1.55	0.0E+00	8922468	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4287	17432		2.35	0.0E+00	5174632	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4300	17443	30429	1.07	0.0E+00	AB037739.1	NT	Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog-like (PKDREJ) mRNA
4309	17452	30438	11.47	0.0E+00	AA401438.1	EST_HUMAN	Homo sapiens mRNA for KIAA1318 protein, partial cds
4309	17452	30439	11.47	0.0E+00	AA401438.1	EST_HUMAN	zu68h07.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4312	17455	30443	1.2	0.0E+00	AF157475.1	NT	zu68h07.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4338	17481	30461	8.09	0.0E+00	4758198	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
4338	17481	30462	8.09	0.0E+00	4758198	NT	Homo sapiens desmoplakin (DP1, DPL1) (DSP) mRNA
4345	17488		0.86	0.0E+00	AL163303.2	NT	Homo sapiens desmoplakin (DP1, DPL1) (DSP) mRNA
4388	17531	30512	5.01	0.0E+00	J02810.1	NT	Homo sapiens chromosome 21 segment HS21C103 Human apolipoprotein B-100 mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4402	17545	30529	0.81	0.0E+00	AW936889.1	EST_HUMAN	PM2-DT0023-080300-004-a08 DT0023 Homo sapiens cDNA
4406	16596	29612	0.65	0.0E+00	BE779039.1	EST_HUMAN	601464995F1 NIH MGC 67 Homo sapiens cDNA clone IMAGE:3688246 5'
4410	17552	30537	5	0.0E+00	AF174590.1	NT	Homo sapiens F-box protein Fbx4 (FBL4) mRNA, partial cds
4419	17560	30544	0.71	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4419	17560	30546	0.71	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4420	17591		2.25	0.0E+00	AI180844.1	EST_HUMAN	gd23f06.x1 Soares_placenta_8to9weeks_2NBHP8tc9W Homo sapiens cDNA clone IMAGE:1724579 3'
4424	17564		4.58	0.0E+00	U14820.1	NT	similar to contains MER20.b2 MER20 repetitive element ;
4428	17568	30550	0.96	0.0E+00	5174574	NT	Human CBFA3 (Cbfa3) gene, partial cds
4445	17585	30565	0.72	0.0E+00	6563384	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trihorax (Drosophila) homolog); translocated to, 4 (MLL T4) mRNA
4445	17585	30566	0.72	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKGN), mRNA
4451	17591	30572	1.08	0.0E+00	U10991.1	NT	Homo sapiens protein kinase C, nu (PRKGN), mRNA
4451	17591	30573	1.08	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4460	17600	30578	10.33	0.0E+00	6912281	NT	Human G2 protein mRNA, partial cds
4480	17620		1.06	0.0E+00	AF153047.2	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4490	17630	30611	3.62	0.0E+00	L14581.1	NT	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds
4494	17634	30616	6.28	0.0E+00	Z80780.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4494	17634	30617	6.28	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4500	17640	30623	1.59	0.0E+00	X60483.1	NT	H. sapiens H2B/h gene
4500	17640	30624	1.59	0.0E+00	X60483.1	NT	H. sapiens H4/d gene for H4 histone
4505	17644	30630	10.05	0.0E+00	7662091	NT	H. sapiens H4/d gene for H4 histone
4505	17644	30631	10.05	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4517	17656	30645	14.1	0.0E+00	4885126	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4518	17657	30646	1.16	0.0E+00	AJ271736.1	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4519	17658		1.24	0.0E+00	AL163207.2	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4522	17661	30648	1.2	0.0E+00	AB037781.1	NT	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA
4553	17691	30671	1.9	0.0E+00	7019456	NT	Homo sapiens Xq pseudautosomal region, segment 2/2
4564	17702		6.81	0.0E+00	AF195963.1	NT	Homo sapiens chromosome 21 segment HS21C007
4570	17708	30687	2.78	0.0E+00	AJ249765.1	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4570	17708	30688	2.78	0.0E+00	AJ249765.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4574	17711	30694	0.89	0.0E+00	W26179.1	EST_HUMAN	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4574	17711	30695	0.89	0.0E+00	W26179.1	EST_HUMAN	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4574	17711	30695	0.89	0.0E+00	W26179.1	EST_HUMAN	24q7 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
4574	17711	30695	0.89	0.0E+00	W26179.1	EST_HUMAN	24q7 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4591	17728		2.28	0.0E+00	AF200629.1	NT	Homo sapiens HPS1 gene, intron 5
4610	17747	30728	0.65	0.0E+00	T10233.1	EST_HUMAN	seq1328 b4HB3MA Cot8-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F205 5'
4610	17747	30727	0.65	0.0E+00	T10233.1	EST_HUMAN	seq1328 b4HB3MA Cot8-HAP-F1 Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F205 5'
4613	17750		0.89	0.0E+00	M14123.1	NT	Human endogenous retrovirus HERV-K10
4623	17790	30742	27.37	0.0E+00	AW084964.1	EST_HUMAN	xs88408.x1 NC1 CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2589448 3' similar to SW:AHNK_HUMAN
4625	18470		2.87	0.0E+00	8051619	NT	Q09666 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNAK ;
4627	17763	30745	1.48	0.0E+00	AF016050.1	NT	Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
4631	17787		8.47	0.0E+00	AF016050.1	NT	Homo sapiens vascular endothelial cell growth factor 165 receptor/neuropilin (VEGF165) mRNA, complete cds
4633	17769	30750	0.97	0.0E+00	AL183207.2	NT	Homo sapiens chromosome 21 segment HS21C007
4640	17776	30757	1.3	0.0E+00	AW381670.1	EST_HUMAN	PM1-HT0305-101199-002-403 HT0305 Homo sapiens cDNA
4640	17776	30758	1.3	0.0E+00	AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4642	17778	30760	1.08	0.0E+00	AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4643	17779	30761	2.07	0.0E+00	4758467	NT	Homo sapiens G protein-coupled receptor 60 (GPR60) mRNA
4651	17787	30770	1.02	0.0E+00	AF108930.1	NT	Homo sapiens serine-threonine protein kinase (MINBH) mRNA, complete cds
4652	17788	30771	1.2	0.0E+00	S78984.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
4652	17788	30772	1.2	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEPV) gene, complete cds
4661	18471	30783	3.18	0.0E+00	6005873	NT	Homo sapiens pyrin (MEPV) gene, complete cds
4666	17801	30788	20.18	0.0E+00	AF208161.1	NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4671	17806	30795	2.17	0.0E+00	AF162337.1	NT	Homo sapiens synocytin precursor, mRNA, complete cds
4674	17809	30799	2.17	0.0E+00	AF162337.1	NT	Homo sapiens prolactin domain C3 (PCLD-H-gamma-C3) mRNA, complete cds
4685	17820	30808	59.87	0.0E+00	5484175	NT	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4693	17828	30814	0.73	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4697	17832	30817	1.84	0.0E+00	4505016	NT	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
4702	17837	30823	1.03	0.0E+00	4503098	NT	Homo sapiens chondroin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4707	17842		3.18	0.0E+00	4502568	NT	Homo sapiens calcimycin/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4709	17844	30826	15.03	0.0E+00	L35485.1	NT	Homo sapiens calcimycin/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4709	17844	30827	15.03	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4724	17859	30841	2.87	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4727	17862	30844	11.57	0.0E+00	AF143314.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
					AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4727	17882	30845	11.57	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4746	17881		1.68	0.0E+00	AA174072.1	EST_HUMAN	z018g08.e1 Stralagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609854 3'
4749	17884		1.96	0.0E+00	7657410	NT	Homo sapiens cdz (cdz Ozler-m, Drosophila) homolog 1 (ODZ1), mRNA
4751	17886		3.31	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4752	17887	30868	1.33	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4753	17888	30869	4.83	0.0E+00	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4754	17889		1.95	0.0E+00	AB037521.1	NT	Homo sapiens gene for natruetic protein, partial cds
4756	17891	30870	0.69	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
4761	17896	30876	1.06	0.0E+00	AL182331.1	NT	Novel human gene mapping to chromosome 1
4764	17899	30879	31.32	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4764	17899	30880	31.32	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
4765	17900	30881	1.42	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4765	17900	30882	1.42	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4766	17901	30883	2.62	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4766	17911	30895	0.98	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4766	17911	30896	0.96	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4781	17918	30902	17.22	0.0E+00	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4787	17922	30910	1.93	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0635-160400-142-H05 BT0635 Homo sapiens cDNA
4788	17923	30911	1.37	0.0E+00	AA418246.1	EST_HUMAN	z06b07.s1 Scores_NhrMPu_S1 Homo sapiens cDNA clone IMAGE:767605 3'
4794	17929		1.9	0.0E+00	AF086641.1	NT	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4799	17934	30921	1.3	0.0E+00	AL183278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4799	17934	30922	1.3	0.0E+00	AL183278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4800	17935	30923	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1389 protein, partial cds
4800	17935	30924	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1389 protein, partial cds
4801	17936	30925	3.06	0.0E+00	MT74099.1	NT	Human displacement protein (COAT) mRNA
4804	17939	30927	2.06	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4804	17939	30928	2.06	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4806	13367	26400	2.93	0.0E+00	T56945.1	EST_HUMAN	y83g04.r2 Stralagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4806	13367	26401	2.93	0.0E+00	T56945.1	EST_HUMAN	y83g04.r2 Stralagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4810	17943		1.18	0.0E+00	BE278730.1	EST_HUMAN	601158935F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505521 5'

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Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4814	17947	30932	1.13	0.0E+00	BE390050.1	EST_HUMAN	601285246F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3607067 5'
4830	17963	30951	0.95	0.0E+00	5729817	NT	Homo sapiens ecotropic viral integration site 2B (EV12B), mRNA
4830	17963	30952	0.95	0.0E+00	5729817	NT	Homo sapiens ecotropic viral integration site 2B (EV12B), mRNA
4835	17968	30955	50.79	0.0E+00	M80902.1	NT	Human AHNK nucleoprotein mRNA, 5' end
4838	17971	30959	3.07	0.0E+00	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4838	17971	30960	3.07	0.0E+00	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4842	17975	30985	2.07	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTFR) gene, complete cds
4844	17977	30967	1.05	0.0E+00	7662479	NT	Homo sapiens KIAA1084 protein (KIAA1084), mRNA
4846	17979	30988	1.73	0.0E+00	7662181	NT	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA
4851	17984	30972	1.15	0.0E+00	U07563.1	NT	Human proto-oncogene tyrosine-protein kinase (ABL) gene, exon 1a and exon 2-10, complete cds
4856	17989	30977	1.29	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4872	18005	30987	0.74	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4872	18005	30988	0.74	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4882	18012	30998	1.25	0.0E+00	AF028601.1	NT	Homo sapiens alpha-3 type IX collagen (COL9A3) gene, promoter region, and exons 1-28
4886	18016	31000	0.82	0.0E+00	7019320	NT	Homo sapiens protein x0008 (AD013), mRNA
4886	18016	31001	0.82	0.0E+00	7019320	NT	Homo sapiens protein x0008 (AD013), mRNA
4907	18037	31025	1.29	0.0E+00	AW444637.1	EST_HUMAN	U1-H-B13-ajw-c-Q4-Q-U1.ct NCL CGAP_Sub55 Homo sapiens cDNA clone IMAGE:2733294 3'
4911	18041	31031	1.18	0.0E+00	AF303134.1	NT	Homo sapiens aldehyde dehydrogenase 12 (ALDH12) mRNA, complete cds
4913	18043		2.01	0.0E+00	AF083242.1	NT	Homo sapiens HSPC024-iso mRNA, complete cds
4924	18054		1.33	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
4925	18055		0.84	0.0E+00	AW330253.1	EST_HUMAN	X289406.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871371 3'
4968	18095		2.87	0.0E+00	AF240766.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4967	18098	31072	1.95	0.0E+00	4505394	NT	Homo sapiens nidogen (enactin) (NID) mRNA
4970	18099	31076	1.09	0.0E+00	X87205.1	NT	M.fascicularis mRNA for metalloprotease-like, disintegrin-like protein, IVa
4972	18101	31077	0.99	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
4973	18102	31078	1.04	0.0E+00	AF097416.1	NT	Mus musculus zinc finger transcription factor Kalso mRNA, complete cds
4974	18103	31079	4.54	0.0E+00	4503766	NT	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
4976	18105	31081	9.88	0.0E+00	4885048	NT	Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
4977	18106	31082	1	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
4982	18111	31088	3.41	0.0E+00	8923080	NT	Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA
4985	18114	31091	1.35	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J8 segments; and Tcr-C-alpha gene, exons 1-4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4985	18114	31092	1.35	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4987	18116	31094	1.3	0.0E+00	X94628.1	NT	H. sapiens MeCP-2 gene
4987	18116	31095	1.3	0.0E+00	X94628.1	NT	H. sapiens MeCP-2 gene
4990	18119	31098	1.46	0.0E+00	M55582.1	NT	Human collagenase type IV (CLG4) gene, exon 2
4991	18120	31099	2.55	0.0E+00	AL183280.2	NT	Homo sapiens chromosome 21 segment HS21C080
5000	18129	31104	1.08	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF2I) mRNA
5007	18136	31110	1.19	0.0E+00	X92841.1	NT	H. sapiens MICA gene
5009	18138	31112	1.32	0.0E+00	4585642	NT	Homo sapiens zinc finger protein (KIAA0412) mRNA
5010	18139	31113	1.39	0.0E+00	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
5011	18140	31114	2.74	0.0E+00	6677648	NT	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA
5012	18141	31115	1.02	0.0E+00	5174560	NT	Homo sapiens meningioma expressed antigen 6 (colled-coil proline-rich) (MGEA6), mRNA
5013	18142	31116	0.94	0.0E+00	BE007935.1	EST_HUMAN	QY0-BN0147-280400-213-g11 BN0147 Homo sapiens cDNA
5013	18142	31117	0.94	0.0E+00	BE007935.1	EST_HUMAN	QY0-BN0147-280400-213-g11 BN0147 Homo sapiens cDNA
5014	18143	31118	4.26	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DP11) (DSP) mRNA
5016	18145	31120	1.79	0.0E+00	5174560	NT	Homo sapiens meningioma expressed antigen 6 (colled-coil proline-rich) (MGEA6), mRNA
5016	18145	31121	1.79	0.0E+00	5174560	NT	Homo sapiens meningioma expressed antigen 6 (colled-coil proline-rich) (MGEA6), mRNA
5017	18146	31122	0.98	0.0E+00	7705546	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA
5020	18149	31127	11.02	0.0E+00	AF055066.1	NT	Homo sapiens MHC class 1 region
5022	18161		2.46	0.0E+00	4505503	NT	Homo sapiens opid receptor, delta 1 (OPRD1) mRNA
5023	18162	31130	2.77	0.0E+00	AF091711.1	NT	Homo sapiens splice variant AKAP350 mRNA, partial cds
5036	18164	31140	1.55	0.0E+00	4503684	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FPPS) mRNA
5040	18168		1.17	0.0E+00	AL183285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5042	18170	31146	1.14	0.0E+00	D15050.1	NT	Human mRNA for transcription factor AREB6, complete cds
5042	18170	31146	1.14	0.0E+00	D15050.1	NT	Human mRNA for transcription factor AREB6, complete cds
5043	18171	31147	7.67	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
5043	18171	31148	7.67	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
5049	18177	31154	1.39	0.0E+00	4504082	NT	Homo sapiens glycocalyx 4 (GPC4) mRNA
5049	18177	31155	1.39	0.0E+00	4504082	NT	Homo sapiens glycocalyx 4 (GPC4) mRNA
5067	18195	31169	1.28	0.0E+00	AL183284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5073	18201	31173	0.71	0.0E+00	7662319	NT	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
5082	18210	31182	1.15	0.0E+00	8922923	NT	Homo sapiens hypothetical protein FLJ11190 (FLJ11190), mRNA

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5087	18215		7.66	0.0E+00	U14967.1	NT	Human ribosomal protein L21 mRNA, complete cds
5097	18225	31187	1.25	0.0E+00	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
5099	18227		2.97	0.0E+00	BE405953.1	EST_HUMAN	801303729F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638118 6'
5102	18230	31201	4.55	0.0E+00	4758199	NT	Homo sapiens desmoglein (DPI, DPL) (DSP) mRNA
5110	18238	31205	1.43	0.0E+00	AB028698.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
5121	18247	31212	2.32	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
5121	18247	31213	2.32	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
5135	18259	31225	0.72	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCL_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
5135	18259	31226	0.72	0.0E+00	AA601246.1	EST_HUMAN	E239140 SPALT PROTEIN ;
5135	18259	31227	0.72	0.0E+00	AA601246.1	EST_HUMAN	no14g09.s1 NCL_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
5139	18262	31229	2.09	0.0E+00	U82871.2	NT	E239140 SPALT PROTEIN ;
5139	18282	31230	2.09	0.0E+00	U82871.2	NT	Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltractin (CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and LI>
5146	13440	26472	0.72	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
5148	18270		1.09	0.0E+00	4758225	NT	Homo sapiens E2F transcription factor 2 (E2F2) mRNA
5160	18282	31247	0.84	0.0E+00	U63558.1	NT	Homo sapiens MHC class 1 region
5167	18289		1.89	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
5170	18292		18.98	0.0E+00	D50857.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
5182	18304	31288	0.92	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5198	18318	31287	3.55	0.0E+00	X52988.1	NT	Bacillus amyloqueliciens sacB gene for levansucrase (EC 2.4.1.10)
5197	18319	31288	0.61	0.0E+00	X72791.1	NT	Human endogenous retrovirus mRNA for gag protein
5213	18334	31305	1.82	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5213	18334	31308	1.82	0.0E+00	AF240635.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5214	18335	31307	1.18	0.0E+00	5454153	NT	Homo sapiens cyclophilin (USA-CYP) mRNA
5232	18354	31322	0.82	0.0E+00	5902055	NT	Homo sapiens ring finger protein (RNF), mRNA
5234	18356	31323	4.58	0.0E+00	M10905.1	NT	Human cellular fibronectin mRNA
5234	18356	31324	4.58	0.0E+00	M10905.1	NT	Human cellular fibronectin mRNA
5236	18358	31327	0.8	0.0E+00	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene

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Single Exon Probes Expressed in Placenta

Probe Seq ID NO:	Exon Seq ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5250	18371	31338	0.65	0.0E+00	5902091	NT	Homo sapiens solute carrier family 5 (nositol transporters), member 3 (SLC5A3), mRNA
5253	18373	31339	1.91	0.0E+00	AF124250.1	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
5266	18385	31351	1.2	0.0E+00	8923822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5266	18385	31352	1.2	0.0E+00	8923822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5267	18386	31353	0.59	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC61597), mRNA
5267	18386	31354	0.59	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC61597), mRNA
5274	18393	31362	1.89	0.0E+00	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
5278	18397	31364	1.03	0.0E+00	AA425183.1	EST_HUMAN	zww4f12.r1 Scores_total_fetus_Nb2HF8_gw Homo sapiens cDNA clone IMAGE:772843 5'
5278	18397	31365	1.03	0.0E+00	AA425183.1	EST_HUMAN	zww4f12.r1 Scores_total_fetus_Nb2HF8_gw Homo sapiens cDNA clone IMAGE:772843 5'
5280	18408	31375	0.93	0.0E+00	7657442	NT	Homo sapiens probocadherin 11 (PCDH11), mRNA
5294	18412	31378	1.47	0.0E+00	AF155692.1	NT	Homo sapiens core1 UDP-galactose-4-epimerase-epimerase-1,3-galactosyltransferase (C1GALT1) mRNA, complete cds
5297	18472	31382	1.84	0.0E+00	AF167336.1	NT	Homo sapiens interleukin 1 receptor accessory protein (IL1RAP) gene, exon 4
5300	18417	31386	0.94	0.0E+00	S69002.1	NT	AML1-EVI-1=AML1-EVI-1 fusion protein (rearranged translocation) [human, leukemic cell line SKH1, mRNA Mutant, 5938 nt]
5301	18418	31387	1.93	0.0E+00	AF095698.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
5301	18418	31388	1.93	0.0E+00	AF095698.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
5303	18420	31390	24.35	0.0E+00	5360213	NT	Homo sapiens glypican 3 (GPC3) mRNA
5306	18423	31393	1.07	0.0E+00	7657203	NT	Homo sapiens acidic 82 kDa protein mRNA (HSU15652), mRNA
5319	18435	31405	0.79	0.0E+00	X76060.1	NT	H. sapiens mRNA for YRRM2
5321	18426	29444	0.85	0.0E+00	AI695950.1	EST_HUMAN	U35909.x1 NCL_CGAP_P128 Homo sapiens cDNA clone IMAGE:2253375 3' similar to SW:RASD_DICD1
5328	18441	31410	0.96	0.0E+00	AF245703.1	NT	P03987 RAS-LIKE PROTEIN RASD
5328	18441	31411	0.96	0.0E+00	AF245703.1	NT	Homo sapiens toll-like receptor 8 (TLR8) mRNA, complete cds
5333	18446	31414	0.96	0.0E+00	AL163208.2	NT	Homo sapiens toll-like receptor 8 (TLR8) mRNA, complete cds
5338	18451	31419	110.9	0.0E+00	AF008061.1	NT	Homo sapiens chromosome 21 segment HS21C006
5340	18453	31421	1.06	0.0E+00	AV728632.1	EST_HUMAN	Homo sapiens placental growth hormone isoform hGH-V3 (hGH-V) mRNA, complete cds
5344	18457	31423	1.29	0.0E+00	5174632	NT	AV728632 HTC Homo sapiens cDNA clone HTCCCEA03 5'
5346	18459	31424	1.18	0.0E+00	4502582	NT	Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREJ) mRNA
5356	18482	31436	2.45	0.0E+00	AF094033.1	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
5366	18569	31437	2.17	0.0E+00	AF137286.1	NT	Homo sapiens aconitase (ACO2) gene, nuclear gene encoding mitochondrial protein, exon 15
5368	18569	31437	2.17	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5388	18590	31562	1.21	0.0E+00	AI934954.1	EST_HUMAN	Homo sapiens keratin 12 (KRT12) gene, complete cds
5388	18590	31562	1.21	0.0E+00	AI934954.1	EST_HUMAN	wp06g08.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2464094 3'

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6391	18593	31585	1.2	0.0E+00	9256579	NT	Homo sapiens protocadherin alpha 13 (PCDH13), mRNA
6408	18608	31580	3.52	0.0E+00	BE631080.1	EST_HUMAN	RC3-GN0076-310800-013-503 GN0076 Homo sapiens cDNA
5410	18612	31584	3.5	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5410	18612	31585	3.5	0.0E+00	AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5418	18619	31584	8.57	0.0E+00	X58163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5418	18619	31585	8.57	0.0E+00	X58163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5489	18698	31714	6.41	0.0E+00	BE675498.1	EST_HUMAN	h69a02x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3294250 3'
5500	18699	31715	1.7	0.0E+00	BE220783.1	EST_HUMAN	P42694 HYPOTHETICAL PROTEIN KIAA0054.1
5501	18700	31716	1.57	0.0E+00	BE784412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5501	18700	31717	1.57	0.0E+00	BE784412.1	EST_HUMAN	601589422F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943804 5'
5502	18701	31718	0.72	0.0E+00	AI189142.1	EST_HUMAN	q04a04.x1 Scorec_placenta_81c0wvke_2NtHP8a0W Homo sapiens cDNA clone IMAGE:1722702 3'
5508	18705	31721	5.23	0.0E+00	M29908.1	NT	similar to SW:712D3_DROME P48846 TRANSCRIPTION INITIATION FACTOR TFID 85 KD SUBUNIT;
5510	18708	31724	1.3	0.0E+00	AI791383.1	EST_HUMAN	oh68a03.y5 NCL CGAP_Kid6 Homo sapiens cDNA clone IMAGE:1472152 5' similar to gb:M18512 IG
5520	18706	31732	4.52	0.0E+00	11421038	NT	HEAVY CHAIN PRECURSOR V.I REGION (HUMAN);
5530	18727	31743	0.78	0.0E+00	BF665932.1	EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4), mRNA
5531	18728	31744	0.78	0.0E+00	AF134406.1	EST_HUMAN	602118928F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276254 5'
5531	18728	31744	0.78	0.0E+00	AF134406.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5537	18734	31751	0.61	0.0E+00	BE538857.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5548	18743	31777	1.63	0.0E+00	BE292784.1	EST_HUMAN	601061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 5'
5551	18748	31783	1.65	0.0E+00	BF526328.1	EST_HUMAN	601105881F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2888310 5'
5551	18748	31784	1.65	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCL CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5570	20121	33535	1.71	0.0E+00	4557364	NT	602071372F1 NCL CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5573	18769	31811	1.29	0.0E+00	AB007835.1	NT	Homo sapiens Bloom syndrome (BLM) mRNA
5573	18769	31812	1.29	0.0E+00	AB007835.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
5577	18772	31816	8.95	0.0E+00	AF267737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5577	18772	31817	8.95	0.0E+00	AF267737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5590	18785	31831	1.34	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
5590	18785	31832	1.34	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
5508	18801	31867	2.01	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5512	18806	31873	0.78	0.0E+00	Z38133.1	NT	H. sapiens mRNA for myosin

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5630	18924	31898	0.73	0.0E+00	D61564.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN:418D05 5'
5630	18924	31899	0.73	0.0E+00	D61564.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN:418D05 5'
5633	18927	31903	2.92	0.0E+00	BF529831.1	EST_HUMAN	602042322F1 NCL CGAP_Bim87 Homo sapiens cDNA clone IMAGE:4179988 5'
5633	18927	31904	2.92	0.0E+00	BF529831.1	EST_HUMAN	602042322F1 NCL CGAP_Bim87 Homo sapiens cDNA clone IMAGE:4179988 5'
5638	18932	31908	2.62	0.0E+00	BF313139.1	EST_HUMAN	601897658F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128815 5'
5649	18943	32124	4.23	0.0E+00	11434392	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
5664	18958	32141	0.59	0.0E+00	A1928181.1	EST_HUMAN	w095b02.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463051 3' similar to TR:075054
5664	18958	32142	0.59	0.0E+00	A1928181.1	EST_HUMAN	w095b02.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2463051 3' similar to TR:075054
5682	18976	32165	1.3	0.0E+00	BE260777.1	EST_HUMAN	O75054 KIAA0468 PROTEIN ;
5691	18988	32190	3.95	0.0E+00	BE260777.1	EST_HUMAN	607150252F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502909 5'
5705	18998	32190	2.49	0.0E+00	BE262889.1	EST_HUMAN	MRO-SN0037-030400-001-h07 SN0037 Homo sapiens cDNA
5705	18998	32191	2.49	0.0E+00	BE262889.1	EST_HUMAN	607106291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987803 5'
5725	18918	32212	1.7	0.0E+00	11420819	NT	607106291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987803 5'
5725	18918	32213	1.7	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5733	18926	32221	4.16	0.0E+00	AF064254.1	NT	Homo sapiens diffractory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5733	18926	32222	4.16	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5740	18933	32232	2.64	0.0E+00	AJ224639.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5740	18933	32233	2.64	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5769	18961	32262	1	0.0E+00	A1198515.1	EST_HUMAN	Homo sapiens Surf-5 and Surf-6 genes
5773	18965	32268	7.55	0.0E+00	M85719.1	EST_HUMAN	q194g10.x1 Soares, placenta, 8to6weeks, 2Nblp8t69W Homo sapiens cDNA clone IMAGE:1757730 3'
5780	18972	32277	4.52	0.0E+00	AW405472.1	EST_HUMAN	similar to SW-CADC_HUMAN P55289 BRAIN-CADHERIN PRECURSOR ;
5793	18984	32287	1.12	0.0E+00	Z26289.1	NT	EST02238 Fetal brain, Striatum (cat#939206) Homo sapiens cDNA clone HFBGM48
5804	18994	32297	1.85	0.0E+00	AW361877.1	EST_HUMAN	UJHF-BL0-edh-4-02-0-0-J1.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3081658 5'
5804	18994	32298	1.85	0.0E+00	AW361877.1	EST_HUMAN	H-sapiens isoform 1 gene for L-type calcium channel, exon 14 and 15
5804	18994	32299	1.85	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5807	18997	32302	0.59	0.0E+00	AB035266.1	NT	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5807	18997	32303	0.59	0.0E+00	AB035266.1	NT	Homo sapiens mRNA for neurexin II, complete cds
5809	18999	32306	1.67	0.0E+00	U36261.1	NT	Homo sapiens mRNA for neurexin II, complete cds
5840	19030	32336	1.02	0.0E+00	AB046861.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 13
5840	19030	32336	1.02	0.0E+00	AB046861.1	NT	Homo sapiens mRNA for KIAA1641 protein, partial cds

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5899	19088	32400	1.49	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQT1 gene
5899	19088	32401	1.49	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQT1 gene
5906	19095	32410	1.23	0.0E+00	A1207616.1	EST_HUMAN	HA2981 Human fetal liver cDNA library Homo sapiens cDNA
5928	19114	32427	4.63	0.0E+00	11416801	NT	Homo sapiens protocadherin beta 2 (PCDH2), mRNA
5933	19119	32430	1.19	0.0E+00	BE791173.1	EST_HUMAN	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938551 5'
5942	19128	32441	1.1	0.0E+00	9898943	NT	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
5943	19129	32442	7.24	0.0E+00	BE560082.1	EST_HUMAN	601345141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3877843 5'
5944	19130	32443	2.46	0.0E+00	10048478	NT	Mus musculus ezonin (Acz), mRNA
5945	19131	32444	3.06	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5945	19131	32445	3.06	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5965	19151	32466	2.99	0.0E+00	BF336835.1	EST_HUMAN	602036272F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184321 5'
5968	19154	32469	0.92	0.0E+00	AF142621.1	NT	Homo sapiens calcium channel gamma 5 subunit (CACNG5) gene, exon 4 and complete cds
5969	19155	32470	3.07	0.0E+00	BE273983.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5979	19164	32484	1.12	0.0E+00	BE503086.1	EST_HUMAN	h23d11.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214681 3' similar to TR:Q62084 Q62084
5984	19169	32491	2.09	0.0E+00	BF559905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310078 5'
5989	19174	32496	0.99	0.0E+00	AA454942.1	EST_HUMAN	z09d06.e1 Scores_NhlMPu_S1 Homo sapiens cDNA clone IMAGE:811883 3'
8021	19204	32524	2.15	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
8023	19206	32526	4.69	0.0E+00	BE828144.1	EST_HUMAN	RC8-E10027-210600-022-G10 ET0027 Homo sapiens cDNA
8028	19211	32531	1.19	0.0E+00	BE598636.1	EST_HUMAN	601945287F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3930453 5'
8044	19227	32560	0.98	0.0E+00	BE673986.1	EST_HUMAN	7d72e11.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN, P81843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1];
8044	19227	32561	0.58	0.0E+00	BE673988.1	EST_HUMAN	7d72e11.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN, P81843 ORPHAN NUCLEAR RECEPTOR DAX-1, [1];
8048	19231	32565	0.8	0.0E+00	AW278760.1	EST_HUMAN	XP6503.x1 NCL_CGAP_Ov39 Homo sapiens cDNA clone IMAGE:2745245 3' similar to TR:P78335 P78335
8058	19240	32565	0.96	0.0E+00	BF031742.1	EST_HUMAN	GUANYLATE KINASE ASSOCIATED PROTEIN;
8058	19240	32566	0.96	0.0E+00	BF031742.1	EST_HUMAN	601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
8058	19240	32566	0.96	0.0E+00	BF031742.1	EST_HUMAN	601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
8070	19252	32581	0.65	0.0E+00	AW470846.1	EST_HUMAN	h23d406.x1 NCL_CGAP_K412 Homo sapiens cDNA clone IMAGE:2875595 3' similar to TR:Q621N3
8082	19264	32592	1.09	0.0E+00	BF155870.1	EST_HUMAN	Q9Z1N3 MYOSIN-RHO GAP PROTEIN, MYR 7;
8082	19264	32593	1.09	0.0E+00	BF155870.1	EST_HUMAN	QV4-HT0894-280900-389-a10 HT0894 Homo sapiens cDNA
8082	19264	32593	1.09	0.0E+00	BF155870.1	EST_HUMAN	QV4-HT0894-280900-389-a10 HT0894 Homo sapiens cDNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6090	19271	32699	1.67	0.0E+00	W33069.1	EST_HUMAN	z008h006.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
6090	19271	32600	1.67	0.0E+00	W33069.1	EST_HUMAN	z008h006.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
6091	19272		2.3	0.0E+00	AF012618.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
6094	19275	32604	3.37	0.0E+00	BE280197.1	EST_HUMAN	601158515F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505323 5'
6100	19280	32612	2.43	0.0E+00	BE889610.1	EST_HUMAN	601512630F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914238 5'
6102	19282	32615	0.98	0.0E+00	BE388673.1	EST_HUMAN	601286320F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613085 5'
6117	19297	32633	0.65	0.0E+00	AW752848.1	EST_HUMAN	IL3-GT0220-111189-028-E04 CT0220 Homo sapiens cDNA
6120	19299	32635	1.72	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
6120	19299	32636	1.72	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product; synaptic vesicle protein 2B homolog (KIAA0735), mRNA
6121	19300	32637	1.15	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
6121	19300	32638	1.15	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
6121	19300	32639	1.15	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
6137	25619	32656	10.17	0.0E+00	9789886	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA
6140	19318	32659	1.28	0.0E+00	AA193506.1	EST_HUMAN	z40h01.r1 Soares_NbHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5 ;
6140	19318	32660	1.28	0.0E+00	AA193506.1	EST_HUMAN	z40h01.r1 Soares_NbHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5 ;
6163	19339	32685	10.44	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
6163	19339	32686	10.44	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
6203	19378	32729	1.06	0.0E+00	BE258330.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355565 5'
6213	19388	32737	1.15	0.0E+00	BE156561.1	EST_HUMAN	QV0-HT0368-090200-099-609 HT0368 Homo sapiens cDNA
6223	19398	32747	0.66	0.0E+00	M38107.1	NT	Human neurofibromatosis type 1 (NF-1) mRNA, 3' and 5' ends
6259	19433	32780	1.6	0.0E+00	BE379007.1	EST_HUMAN	601236276F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608480 5'
6265	19439	32786	1.35	0.0E+00	AU131772.1	EST_HUMAN	AU131772 PLACE1 Homo sapiens cDNA clone PLACE1007201 5'
6287	19460	32812	3.33	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-9-8 gene, complete cds
6316	19488	32844	4.34	0.0E+00	AA204740.1	EST_HUMAN	z481d03.r1 Stragene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648005 5' similar to TR:G854195 G854195 LEUKOCYTE SURFACE PROTEIN ;
6317	19480	32845	3.89	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6317	19489	32846	3.89	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6353	19523	32880	2.28	0.0E+00	11428367	NT	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
6357	19527	32885	3.15	0.0E+00	BE257173.1	EST_HUMAN	601108532F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350822 5'
6371	19540		0.98	0.0E+00	AI665048.1	EST_HUMAN	#91f10.x1 NCL CGAP_P28 Homo sapiens cDNA clone IMAGE:2248939 3' similar to TR:Q14839 Q14839 MI-2 PROTEIN ;

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6375	19544	32902	1.32	0.0E+00	L35930.1	NT	Human anion exchanger (AE1) gene, exons 1-20
6383	19552	32908	0.96	0.0E+00	BE797385.1	EST_HUMAN	601687971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6383	19552	32909	0.96	0.0E+00	BE797385.1	EST_HUMAN	601687971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6393	19582	32922	0.71	0.0E+00	A1198025.1	EST_HUMAN	q50b11.x1 NCL CGAP_Brm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838
6393	19582	32923	0.71	0.0E+00	A1198025.1	EST_HUMAN	q50b11.x1 NCL CGAP_Brm25 Homo sapiens cDNA clone IMAGE:1859901 3' similar to TR:Q12838 Q12838
6395	19584	32924	1.11	0.0E+00	BF357123.1	EST_HUMAN	TFIIC ALPHA SUBUNIT ;
6403	19572	32934	1.3	0.0E+00	11435830	NT	MRO-HT0923-223800-102-505 HT0923 Homo sapiens cDNA
6413	19582	32943	0.59	0.0E+00	D55849.1	NT	Human mRNA for alpha mannosidase II isozyme, complete cds
6429	19597	32963	1.07	0.0E+00	AW178142.1	EST_HUMAN	IL3-HT0062-010939-014-A04 HT0062 Homo sapiens cDNA
6450	19917	32980	0.6	0.0E+00	BE674544.1	EST_HUMAN	7602c12.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3281302 3' similar to SW:Y176_HUMAN
6454	19821	32985	0.77	0.0E+00	7662039	NT	Q14881 HYPOTHETICAL PROTEIN KIAA0176 ;
6468	19836	33006	9.28	0.0E+00	AV650020.1	EST_HUMAN	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
6477	19844	33006	3.46	0.0E+00	AW675988.1	EST_HUMAN	AV650020 GLC Homo sapiens cDNA clone GLCCAD09 3'
6480	19847	33008	4.63	0.0E+00	H01285.1	EST_HUMAN	U1-HF-BLO-acc-g-12-0-UJ.s1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3058761 3'
6488	19855	33018	0.71	0.0E+00	11426293	NT	y27603.r1 Scores placenta Nb2HP Homo sapiens cDNA clone IMAGE:149933 5'
6492	19858	33021	1.67	0.0E+00	X15377.1	EST_HUMAN	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACON1), mRNA
6494	19860	33023	1.17	0.0E+00	AA456375.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6495	19861	33024	1.04	0.0E+00	A1612841.1	EST_HUMAN	aa14e07.r1 Scores_NhlMMPu_S1 Homo sapiens cDNA clone IMAGE:819252 5'
6501	19867	33030	4.27	0.0E+00	BE735980.1	EST_HUMAN	tz57d08.x1 NCL CGAP_Ov45 Homo sapiens cDNA clone IMAGE:2292687 3' similar to SW:NTCS_HUMAN
6501	19867	33031	4.27	0.0E+00	BE735980.1	EST_HUMAN	P83786 SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2 ;
6505	19871	33037	0.86	0.0E+00	AW748596.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639816 5'
6505	19871	33038	0.86	0.0E+00	AW748596.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639816 5'
6507	19873	33040	52.21	0.0E+00	AU119245.1	EST_HUMAN	MRO-BT0264-221189-002-F11 BT0264 Homo sapiens cDNA
6507	19873	33041	52.21	0.0E+00	AU119245.1	EST_HUMAN	MRO-BT0264-221189-002-F11 BT0264 Homo sapiens cDNA
6512	19877	33047	0.8	0.0E+00	BE780463.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6513	19878	33048	0.84	0.0E+00	X92217.1	NT	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6527	19891	33055	1.71	0.0E+00	A089483.1	EST_HUMAN	601468712F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3871899 5'
6541	19704	33076	4.06	0.0E+00	BE293183.1	EST_HUMAN	Human gamma globulin heavy chain, variable region, (13-2)
6541	19704	33077	4.06	0.0E+00	BE293183.1	EST_HUMAN	ws25c07.x1 NCL CGAP_GC8 Homo sapiens cDNA clone IMAGE:2498220 3'
6573	19735	33114	1.07	0.0E+00	BE867857.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987963 5'
6573	19735	33114	1.07	0.0E+00	BE867857.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987963 5'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6609	19769	33158	1.81	0.0E+00	AW406348.1	EST_HUMAN	UI-HF-BLO-aco-h-02-Q-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6608	19769	33159	1.81	0.0E+00	AW406348.1	EST_HUMAN	UI-HF-BLO-aco-h-02-Q-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5'
6640	19799	33168	0.94	0.0E+00	AV719444.1	EST_HUMAN	AV719444 GLG Homo sapiens cDNA clone GLCEHC06 5'
6648	19808	33195	0.74	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6640	19808	33196	0.74	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6652	19811	33199	2.13	0.0E+00	AF190860.1	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CACNA1G) mRNA, complete cds
6655	19814	33202	0.84	0.0E+00	L48546.1	NT	Homo sapiens tubulin (TSC2) gene, exons 38, 39, 40 and 41
6657	19816	33203	0.99	0.0E+00	11420658	NT	Homo sapiens transformation/transcription domain-associated protein (TRRAP), mRNA
6664	19823	33210	3.5	0.0E+00	AW163540.1	EST_HUMAN	TR-O15390 O15390 GT24. [3] TR-O43840 TR-O43206 ;
6664	19823	33211	3.5	0.0E+00	AW163540.1	EST_HUMAN	au86h08.Y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to
6668	19827	33214	1.06	0.0E+00	W37163.1	EST_HUMAN	TR-O15390 O15390 GT24. [3] TR-O43840 TR-O43206 ;
6668	19827	33215	1.06	0.0E+00	W37163.1	EST_HUMAN	SW-ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45 ;
6684	19842	33232	1.21	0.0E+00	BE794893.1	EST_HUMAN	Zn20e06.r1 Soares_fetal_jung_NHLL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to
6691	19849	33239	5.1	0.0E+00	BE796873.1	EST_HUMAN	SW-ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45 ;
6692	19850	33240	1.36	0.0E+00	BE767955.1	EST_HUMAN	60158937F1F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3949304 5'
6692	19850	33241	1.38	0.0E+00	BE767955.1	EST_HUMAN	60158756F1F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941847 5'
6696	19854	33244	6.83	0.0E+00	BE868813.1	EST_HUMAN	QV1-GND085-140800-318-h02 GN0065 Homo sapiens cDNA
6696	19854	33245	6.83	0.0E+00	BE868813.1	EST_HUMAN	QV1-GND085-140800-318-h02 GN0065 Homo sapiens cDNA
6705	19863	33253	4.51	0.0E+00	L24493.1	NT	601572058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6710	19868	33257	2.82	0.0E+00	AL163204.2	NT	601572058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6710	19868	33258	2.62	0.0E+00	AL163204.2	NT	Human antigen CD27 gene, exons 1-2
6716	19874	33265	3.68	0.0E+00	6005983	NT	Homo sapiens chromosome 21 segment HS21C004
6720	19877	33268	4.12	0.0E+00	AI638412.1	EST_HUMAN	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
6722	19879	33270	1.46	0.0E+00	L32832.1	NT	P17553 WNT-3 PROTO-ONCOGENE PROTEIN PRECURSOR ;
6735	19891	33283	0.82	0.0E+00	AW505430.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
6737	19893	33284	4.11	0.0E+00	AA434584.1	EST_HUMAN	UI-HF-BNO-ana-c-01-Q-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081217 5'
6751	19907	33307	1.13	0.0E+00	BF21200.1	EST_HUMAN	zw52c03.r1 Soares_fetal_jelus_Nb2HF9_5W Homo sapiens cDNA clone IMAGE:773668 5'
6756	19912	33307	1.63	0.0E+00	BE826876.1	EST_HUMAN	601865317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103693 5'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6789	19944	33342	0.76	0.0E+00	11428768	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6789	19944	33343	0.76	0.0E+00	11428768	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6789	19945	33345	0.59	0.0E+00	AW611964.1	EST_HUMAN	hg82e04.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2952128 3'
6808	19962	33366	1.64	0.0E+00	AU126928.1	EST_HUMAN	AU126928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
6810	19964	33368	0.58	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-H10 NN0174 Homo sapiens cDNA
6810	19964	33369	0.58	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-H10 NN0174 Homo sapiens cDNA
6832	19985	33393	1.27	0.0E+00	BE142363.1	EST_HUMAN	CMO-H10143-270989-062-408 HT0143 Homo sapiens cDNA
6854	20007	33416	2.43	0.0E+00	BE006012.1	EST_HUMAN	RCO-BN0121-280300-032-404 BN0121 Homo sapiens cDNA
6854	20007	33417	2.43	0.0E+00	BE006012.1	EST_HUMAN	RCO-BN0121-280300-032-404 BN0121 Homo sapiens cDNA
6878	20028	33438	7.78	0.0E+00	BE160131.1	EST_HUMAN	PM3-HT0520-230200-002-408 HT0520 Homo sapiens cDNA
6878	20030	33440	2.04	0.0E+00	BF085667.1	EST_HUMAN	IL5-GN0032-180900-145-467 GN0032 Homo sapiens cDNA
6915	20230	33663	3.33	0.0E+00	AA190755.1	EST_HUMAN	z88e03.r1 Striatogene HeLa cell c3 937216 Homo sapiens cDNA clone IMAGE:627292 5'
6926	20241	33676	0.83	0.0E+00	U39573.1	NT	Human salivary peroxidase mRNA, complete cds
6930	20245	33678	0.76	0.0E+00	BE671987.1	EST_HUMAN	7a49b07.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3222037 3' similar to TR:Q9Z285 Q9Z285
6940	20263	33689	6.73	0.0E+00	A1940621.1	EST_HUMAN	TEKTIN.1
6940	20263	33689	6.73	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6940	20263	33690	6.73	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6951	20284	33703	2.15	0.0E+00	11435628	NT	Homo sapiens CD8 antigen (CD8), mRNA
6963	20181	33617	0.73	0.0E+00	AL042443.1	EST_HUMAN	DKFZp434D2021_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2021 5'
6964	20182	33618	11.05	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
6967	20195	33621	0.92	0.0E+00	A1168270.1	EST_HUMAN	cc10d01.x1 Scores_NSF_F8_gW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1665761 3' similar to
6972	20200	33626	0.85	0.0E+00	BE734087.1	EST_HUMAN	TR:Q26623 Q26623 TEKTIN C1.1
6991	18510	31502	1.28	0.0E+00	BE566381.1	EST_HUMAN	801667370F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842080 5'
6998	18517	31509	13.83	0.0E+00	BE867889.1	EST_HUMAN	801339677F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682267 5'
6998	18517	31510	13.83	0.0E+00	BE867889.1	EST_HUMAN	801443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
7004	20140	33558	1.74	0.0E+00	BE550162.1	EST_HUMAN	801443667F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847697 5'
7004	20140	33559	1.74	0.0E+00	BE550162.1	EST_HUMAN	7b49b03.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN
7030	20166	33568	1.66	0.0E+00	BF088376.1	EST_HUMAN	Q08379 GOLGIN-95
7036	20172	33694	1.4	0.0E+00	AA195106.1	EST_HUMAN	7b49b03.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7044	20097		11.81	0.0E+00	11034810	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
7046	20099	33515	1.11	0.0E+00	11431474	NT	Homo sapiens sodium channel, nonvoltage-gated 1, beta (Liddle syndrome) (SCNN1B), mRNA
7061	20114	33529	2.69	0.0E+00	BF56995.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
7068	20121	33535	0.86	0.0E+00	4557364	NT	Homo sapiens Bloom syndrome (BLM) mRNA
7078	20129		2.06	0.0E+00	J03069.1	NT	Human MYCL2 gene, complete cds
7083	20177	33589	2.56	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
7083	20177	33600	2.56	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
7084	20178	33601	1.07	0.0E+00	M88113.1	NT	Human neurofibromatosis type 1 gene, exon x8
7095	18522	31515	3.59	0.0E+00	11420775	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
7099	18526	31518	0.7	0.0E+00	BE256708.1	EST_HUMAN	601115515F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3356330 5'
7111	18537	31493	0.62	0.0E+00	AI660911.1	EST_HUMAN	w121c09.x1 Soares, Dieckgraefe, colon, NHUC Homo sapiens cDNA clone IMAGE:2351248 3' similar to gb:M74297 HOMEBOX PROTEIN HOX-A4 (HUMAN); contains PTR5.b1 MER22 repetitive element;
7111	18537					EST_HUMAN	w121c09.x1 Soares, Dieckgraefe, colon, NHUC Homo sapiens cDNA clone IMAGE:2351248 3' similar to gb:M74297 HOMEBOX PROTEIN HOX-A4 (HUMAN); contains PTR5.b1 MER22 repetitive element;
7120	18548	31494	0.82	0.0E+00	AI660911.1	EST_HUMAN	AU118478 HEMBA1 Homo sapiens cDNA clone HEMBA1003679 5'
7123	18549	31457	1.21	0.0E+00	AU118478.1	EST_HUMAN	601143854F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3501829 5'
7124	18550	31461	7.82	0.0E+00	BE262941.1	EST_HUMAN	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
7124	18550	31462	2.72	0.0E+00	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
7124	18550	31463	2.72	0.0E+00	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
7125	18551	31464	3.01	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7125	18551	31465	3.01	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7132	18558	31472	1.28	0.0E+00	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
7137	20272	33711	0.61	0.0E+00	BE762770.1	EST_HUMAN	QV3-NT0022-140600-223-701 NT0022 Homo sapiens cDNA
7142	20277	33717	2.56	0.0E+00	BF569905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
7144	20278	33719	0.78	0.0E+00	AJ404488.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7144	20279	33720	0.78	0.0E+00	AJ404488.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7148	20283	33725	3.25	0.0E+00	L01978.1	NT	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
7153	20287	33729	0.72	0.0E+00	AW502362.1	EST_HUMAN	U1-HF-BR0p-aka-d-10-0-U1.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
7153	20287	33730	0.72	0.0E+00	AW502362.1	EST_HUMAN	U1-HF-BR0p-aka-d-10-0-U1.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
7162	20295	33738	0.87	0.0E+00	AL039591.1	EST_HUMAN	DKFZp434D2211_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2211 5'
7162	20295	33739	0.87	0.0E+00	AL039591.1	EST_HUMAN	DKFZp434D2211_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2211 5'
7171	20304	33747	5.81	0.0E+00	BF306896.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7177	20309	33752	2.13	0.0E+00	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
7219	20384	33499	1.15	0.0E+00	AL049784.1	NT	Novel human gene mapping to chromosome 13
7225	20389	33506	0.64	0.0E+00	AW513069.1	EST_HUMAN	Xc40a02.x1 NCL CGAP_U11 Homo sapiens cDNA clone IMAGE:2700456 3' similar to TR:094895 094895
7257	20340	33790	0.62	0.0E+00	AB026983.1	NT	KIAA0803 PROTEIN ;
7257	20340	33791	0.62	0.0E+00	AB026983.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7262	20345	33797	0.84	0.0E+00	AU137738.1	EST_HUMAN	Homo sapiens mRNA for vascular cadherin-2, complete cds
7262	20345	33798	0.84	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7268	20351	33804	1.16	0.0E+00	AW954806.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7269	20352	33805	0.72	0.0E+00	BE254103.1	EST_HUMAN	EST386876 IMAGE resequences, MAGC Homo sapiens cDNA
7283	20386	33819	1	0.0E+00	LO1973.1	NT	601113958F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354568 5'
7291	20373	33829	1.03	0.0E+00	AB007935.1	NT	Human type VI sodium channel alpha polypeptide (SCN4A) gene, exon 14
7291	20373	33830	1.03	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0468 protein, partial cds
7297	20379	33837	1.47	0.0E+00	AU133213.1	EST_HUMAN	Homo sapiens mRNA for KIAA0468 protein, partial cds
7313	20385	33857	1.06	0.0E+00	11428081	NT	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001558 5'
7319	20401		2.82	0.0E+00	AU143706.1	EST_HUMAN	Homo sapiens membrane protein CH1(GH1), mRNA
7320	20402	33864	0.71	0.0E+00	4758839	NT	AU143706 Y78AAT1 Homo sapiens cDNA clone Y78AA1002365 5'
7329	20411	33872	1.25	0.0E+00	BE891286.1	EST_HUMAN	Homo sapiens netrin 1 (NTN1), mRNA
7329	20411	33873	1.25	0.0E+00	BE891286.1	EST_HUMAN	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7350	18598	31436	2.43	0.0E+00	AF137286.1	NT	601431819F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7350	18599	31437	2.43	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7361	20440	33901	0.67	0.0E+00	BE747231.1	EST_HUMAN	Homo sapiens keratin 12 (KRT12) gene, complete cds
7361	20440	33902	0.67	0.0E+00	BE747231.1	EST_HUMAN	601580948F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929722 5'
7371	20450	33913	4.07	0.0E+00	11438669	NT	601580948F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929722 5'
7371	20450	33914	4.07	0.0E+00	11438669	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7385	20463	33927	0.63	0.0E+00	AF22744.1	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
						NT	Homo sapiens voltage-dependent calcium channel alpha 1G subunit isoform ae (CACNA1G) mRNA, complete cds
7406	20484	33952	36.37	0.0E+00	A1128344.1	EST_HUMAN	qc67a07.x1 Soares, placenta 8tc9weeks_2Nblp8b9w Homo sapiens cDNA clone IMAGE:1714844 3' similar to SW:ARSD_HUMAN P51688 ARYL SULFATASE D PRECURSOR ; contains element HGR
						EST_HUMAN	repetitive element ;
7408	20484	33953	36.37	0.0E+00	A1128344.1	EST_HUMAN	qc67a07.x1 Soares, placenta 8tc9weeks_2Nblp8b9w Homo sapiens cDNA clone IMAGE:1714844 3' similar to SW:ARSD_HUMAN P51688 ARYL SULFATASE D PRECURSOR ; contains element HGR
						EST_HUMAN	repetitive element ;

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7408	20486	33955	0.74	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7408	20486	33958	0.74	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7410	20488	33958	5.41	0.0E+00	11426332	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7410	20488	33959	5.41	0.0E+00	11426332	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7413	20491		13.11	0.0E+00	BF337375.1	EST_HUMAN	602035089F1 NCI_CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4182839 5'
7415	20493	33981	3.49	0.0E+00	AA128453.1	EST_HUMAN	z60709.1 Stragene muscle 937209 Homo sapiens cDNA clone IMAGE:562601 5' similar to TR:G806562
7420	20497	33967	0.77	0.0E+00	AL079497.1	EST_HUMAN	G806562 NEBULIN ;
7420	20497	33968	0.77	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0226_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0226 5'
7431	20508	33980	0.89	0.0E+00	AJ270996.1	NT	DKFZp434B0226_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0226 5'
7461	20536	34011	1.13	0.0E+00	BE295498.1	EST_HUMAN	Homo sapiens partial mRNA for LTRP-C5 protein (LTRP-C5 gene)
7463	20538	34012	0.91	0.0E+00	11427895	NT	601174576F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3523794 5'
7466	20541		1.33	0.0E+00	AU118607.1	EST_HUMAN	Homo sapiens hypothetical protein (FLJ20261), mRNA
7467	20542	34015	1.71	0.0E+00	AF005213.1	NT	AU118607 HEMBA1 Homo sapiens cDNA clone HEMBA1003969 5'
7467	20542	34016	1.71	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7479	20554	34026	0.83	0.0E+00	AF245503.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7487	20562	34031	6.47	0.0E+00	X70172.1	NT	Homo sapiens adiclan mRNA, complete cds
7489	20564	34033	5.81	0.0E+00	U45448.1	NT	H. sapiens DNA for ZNGP2 pseudogene, exon 4
7489	20564	34034	5.81	0.0E+00	U45448.1	NT	Human P2X1 receptor mRNA, complete cds
7502	20577	34049	0.89	0.0E+00	AW95503.1	EST_HUMAN	Human P2X1 receptor mRNA, complete cds
7504	20579	34051	2.31	0.0E+00	AW95503.1	EST_HUMAN	EST358573 MAGC resequences, MAGD Homo sapiens cDNA
7531	20504	34078	1.03	0.0E+00	AF001543.1	EST_HUMAN	EST362586 MAGC resequences, MAGA Homo sapiens cDNA
7531	20504	34079	1.03	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa S.C.) Homo sapiens cDNA clone kappa_200
7531	20504	34080	1.03	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa S.C.) Homo sapiens cDNA clone kappa_200
7531	20504	34080	1.03	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa S.C.) Homo sapiens cDNA clone kappa_200
7552	20624		0.58	0.0E+00	M90354.1	NT	Human BTIF3 protein homologue gene, complete cds
7553	20625	34101	0.8	0.0E+00	BE408293.1	EST_HUMAN	Human BTIF3 protein homologue gene, complete cds
7580	20652		1.09	0.0E+00	R87430.1	EST_HUMAN	601302679F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3637434 5'
7581	20653	34129	1.81	0.0E+00	AW239326.1	EST_HUMAN	ym8810.1 Scores adult brain N2b-4H550Y Homo sapiens cDNA clone IMAGE:166051 5'
7600	20670		1.3	0.0E+00	AU117533.1	EST_HUMAN	x639a05.y1 NCI_CGAP_Lu31 Homo sapiens cDNA clone IMAGE:2578640 5' similar to TR:Q08050 Q08050
7602	20672	34146	3.8	0.0E+00	11427135	NT	HNF3/FH TRANSCRIPTION FACTOR GENESIS ;
7622	20692	34168	0.62	0.0E+00	AA211663.1	EST_HUMAN	AU117533 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5'
7628	20698	34174	0.63	0.0E+00	BF229235.1	EST_HUMAN	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
							z65602.1 Stragene muscle 937209 Homo sapiens cDNA clone IMAGE:562203 5' similar to gp:X03740
							MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
							MR0-AN0083-270900-004-007 AND083 Homo sapiens cDNA

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7634	20703	34182	0.97	0.0E+00	AW405627.1	EST_HUMAN	UHF-BL0-abs-d-07-0-UL11 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3057469 5'
7641	20710	34189	0.8	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
7667	20733	34209	0.9	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7667	20733	34210	0.9	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7675	20740	34220	1.09	0.0E+00	AU118787.1	EST_HUMAN	AU118787 HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5'
7733	20784	34281	4.41	0.0E+00	A1752861.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
7733	20784	34282	4.41	0.0E+00	A1752861.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
7786	20852	34344	0.6	0.0E+00	AL046347.2	EST_HUMAN	DKFZp434J087_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434J087 5'
7813	20868	34363	1.78	0.0E+00	AF084205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7813	20868	34364	1.78	0.0E+00	AF084205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7821	20876	34375	1.34	0.0E+00	U74315.1	EST_HUMAN	HSU74315 Human chromosome 14 Homo sapiens cDNA clone 1-4
7835	20890	34392	1	0.0E+00	11417342	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
7863	20917	34422	0.7	0.0E+00	A1825504.1	EST_HUMAN	wb17g05.x1 NCI_CGAP_GC08 Homo sapiens cDNA clone IMAGE:2305978 3' similar to TR:O75363 O75363 ABC1.1
7863	20917	34423	0.7	0.0E+00	A1825504.1	EST_HUMAN	wb17g05.x1 NCI_CGAP_GC08 Homo sapiens cDNA clone IMAGE:2305978 3' similar to TR:O75363 O75363 ABC1.1
7871	20925	34432	1.84	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7877	20929	34435	0.98	0.0E+00	N76126.1	EST_HUMAN	z88605.s1 Soares_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:259459 3'
7881	20933	34438	6.1	0.0E+00	BF217905.1	EST_HUMAN	601886465F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103729 5'
7886	20938	34444	0.62	0.0E+00	BF569892.1	EST_HUMAN	602185808F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310266 5'
7891	20943	34449	3.52	0.0E+00	AU129622.1	EST_HUMAN	AU129622 NT2P2 Homo sapiens cDNA clone NT2RP2006913 5'
7911	20955	34469	0.95	0.0E+00	AW069274.1	EST_HUMAN	cr42a09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42a09 3'
7911	20955	34470	0.95	0.0E+00	AW069274.1	EST_HUMAN	cr42a09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr42a09 3'
7915	20968	34472	6.67	0.0E+00	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7922	20973	34479	0.92	0.0E+00	AV758487.1	EST_HUMAN	AV758487 BM Homo sapiens cDNA clone BMFBG005 5'
7924	20974	34480	5.78	0.0E+00	BE739870.1	EST_HUMAN	601503158F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7924	20974	34481	5.78	0.0E+00	BE739870.1	EST_HUMAN	601503158F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7925	20975	34482	0.76	0.0E+00	6912481	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (IAA0705), mRNA

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7925	20976	34483	0.76	0.0E+00	6912481	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
7926	20976	34484	1.05	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
7926	20976	34485	1.05	0.0E+00	AU120424.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'
7948	20998	34508	12.57	0.0E+00	BF590287.1	EST_HUMAN	hnb22c04.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3263214 3' similar to contains element TART repetitive element;
7959	21009	34519	1.86	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:3884258 5'
7959	21009	34520	1.89	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_98 Homo sapiens cDNA clone IMAGE:3884258 5'
7998	21048	34561	0.63	0.0E+00	Y16795.1	NT	Homo sapiens psihHaA pseudogene
7999	21049	34562	3.86	0.0E+00	AJ346148.1	EST_HUMAN	qp-4305.x1 NCI_CGAP_C08 Homo sapiens cDNA clone IMAGE:1925793 3' similar to SW:EVX1_HUMAN
8001	21051	34564	0.86	0.0E+00	W52573.1	EST_HUMAN	P49640 HOMEBOX-EVEN-SKIPPED HOMOLOG PROTEIN 1;
8002	21052	34565	0.58	0.0E+00	11425128	NT	Z69070.1 Pancreatic Islet Homo sapiens cDNA clone IMAGE:338443 5'
8003	21053	34566	0.59	0.0E+00	AU117333.1	EST_HUMAN	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
8004	21054		0.57	0.0E+00	BE613963.1	EST_HUMAN	AU117333 HEMBA1 Homo sapiens cDNA clone HEMBA1001175 5'
8018	21069	34580	0.73	0.0E+00	6965985	NT	601504084F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905733 5'
8018	21069	34581	0.73	0.0E+00	6965985	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8037	21120	34640	0.49	0.0E+00	AU133187.1	EST_HUMAN	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8083	21165		0.89	0.0E+00	BF217200.1	EST_HUMAN	AU133187 NT2RP4 Homo sapiens cDNA clone NT2RP4001507 5'
8096	21178	34695	0.61	0.0E+00	BE313013.1	EST_HUMAN	601865317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103693 5'
8108	21190	34710	1.36	0.0E+00	AA149781.1	EST_HUMAN	601190347F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503050 5'
8121	21203	34724	0.72	0.0E+00	BF026628.1	EST_HUMAN	Z601005.1 Stralagene colon (#837204) Homo sapiens cDNA clone IMAGE:566410 5'
8135	21217	34738	0.55	0.0E+00	AA017021.1	EST_HUMAN	601672310F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955131 5'
8153	21235	34756	2.06	0.0E+00	BE736046.1	EST_HUMAN	Z633108.1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360831 5'
8170	21252	34772	3.19	0.0E+00	M34872.1	NT	601305659F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639903 5'
8170	21252	34773	3.19	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
8200	21282	34804	0.56	0.0E+00	AW674591.1	EST_HUMAN	Human amyloid-beta protein (APP) gene, exon 11
8200	21282	34805	0.56	0.0E+00	AW674591.1	EST_HUMAN	b634402.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2885123 5' similar to TR:O64652 O64652 F17K2.28 PROTEIN;
8207	21289	34811	2.07	0.0E+00	AA397551.1	EST_HUMAN	b634402.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2885123 5' similar to TR:O64652 O64652 F17K2.28 PROTEIN;
							Z181b04.f1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8209	21291	34812		0.85	AW387131.1	EST_HUMAN	MRO-ST0031-061099-003-at1 ST0031 Homo sapiens cDNA
8212	21294		0.64	0.0E+00	AB020691.1	NT	Homo sapiens mRNA for KIAA0884 protein, partial cds
8213	21295	34814		0.15	0.0E+00	AU142402.1	AU142402 Y79AA1 Homo sapiens cDNA clone Y79AA100277 5'
8216	21298	34818		0.86	0.0E+00	BE386421.1	EST_HUMAN
8218	21298	34819		0.88	0.0E+00	BE386421.1	EST_HUMAN
8231	21313	34833		0.59	0.0E+00	7657276	NT
8233	21315	34835		0.84	0.0E+00	W95278.1	EST_HUMAN
8233	21315	34836		0.84	0.0E+00	W95278.1	EST_HUMAN
8235	21317			4.11	0.0E+00	BF673086.1	EST_HUMAN
8239	21321			0.93	0.0E+00	AU134114.1	EST_HUMAN
8253	21335	34853		0.96	0.0E+00	BF526634.1	EST_HUMAN
8253	21335	34854		0.95	0.0E+00	BF525534.1	EST_HUMAN
8285	21387	34886		1.35	0.0E+00	AL120124.1	EST_HUMAN
8285	21387	34887		1.35	0.0E+00	AL120124.1	EST_HUMAN
8328	21410			1.18	0.0E+00	BE877693.1	EST_HUMAN
8351	21432	34936		1.27	0.0E+00	AW500549.1	EST_HUMAN
8359	21440	34962		14.12	0.0E+00	AW157233.1	EST_HUMAN
8378	21457	34981		0.88	0.0E+00	AW072395.1	EST_HUMAN
8394	21475	35002		1.11	0.0E+00	11421722	NT
8397	21478	35005		0.57	0.0E+00	W01816.1	EST_HUMAN
8399	21480	35007		1.3	0.0E+00	BE745597.1	EST_HUMAN
8399	21480	35008		1.3	0.0E+00	BE745597.1	EST_HUMAN
8411	21492	35022		1.13	0.0E+00	AJ271735.1	NT
8431	21512	35043		0.46	0.0E+00	D45032.1	NT
8450	21531	35090		0.53	0.0E+00	A1367350.1	EST_HUMAN
8462	21543	35073		2.23	0.0E+00	BE674157.1	EST_HUMAN
8464	21645	35075		1.96	0.0E+00	A1885671.1	EST_HUMAN
8477	21558	35081		1.47	0.0E+00	BE663650.1	EST_HUMAN

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8477	21568	35092	1.47	0.0E+00	BE563650.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3686655 5'
8485	21568	35102	1.72	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8485	21568	35103	1.72	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8487	21568	35105	0.84	0.0E+00	AA403192.1	EST_HUMAN	z66902.f1 Soares, total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD. ;
8487	21568	35106	0.84	0.0E+00	AA403192.1	EST_HUMAN	z66902.f1 Soares, total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD. ;
8528	21609		3.61	0.0E+00	AA398511.1	EST_HUMAN	z73a08.s1 Soares, testis_NHT Homo sapiens cDNA clone IMAGE:727868 3' similar to gb:S86655
8537	21618	35156	0.5	0.0E+00	BE637593.1	EST_HUMAN	PROHIBITIN (HUMAN);
8538	21619	35156	1.34	0.0E+00	AW364874.1	EST_HUMAN	RC2-FN0084-120600-013-h07 FN0084 Homo sapiens cDNA
8538	21619	35157	1.34	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221299-048-c07 DT0045 Homo sapiens cDNA
8557	21638	35176	1.24	0.0E+00	BE612586.1	EST_HUMAN	QV3-DT0045-221299-048-c07 DT0045 Homo sapiens cDNA
8557	21638	35177	1.24	0.0E+00	BE612586.1	EST_HUMAN	601452412F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856179 5'
8572	21653	35194	1.16	0.0E+00	AL163209.2	NT	601452412F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3856179 5'
8572	21653	35195	1.16	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8581	21662	35202	0.93	0.0E+00	AI894477.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C009
8588	21669	35208	0.71	0.0E+00	AA502294.1	EST_HUMAN	wm33a11.xt NCL_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437724 3' similar to TR:O75457 O75457
8593	21674		0.88	0.0E+00	11416769	NT	CYTOSOLIC PHOSPHOLIPASE A2-GAMMA. ;
8601	21682	35220	0.52	0.0E+00	AI560780.1	EST_HUMAN	ne25610.s1 NCL_CGAP_C03 Homo sapiens cDNA clone IMAGE:882269 3' similar to TR:G1138434
8604	21685		2.08	0.0E+00	BE890797.1	EST_HUMAN	G1136434 KIAA0187 PROTEIN. ;
8630	21710	35246	0.61	0.0E+00	AW245765.1	EST_HUMAN	Homo sapiens protocadherin beta 3 (PCDH3), mRNA
8630	21710	35247	0.61	0.0E+00	AW245765.1	EST_HUMAN	la04f11.xt Soares, pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:2043117 3'
8631	21711	35248	2.13	0.0E+00	4758695	NT	601431236F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916569 5'
8631	21711	35249	2.13	0.0E+00	4758695	NT	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8635	21715	35252	0.61	0.0E+00	U88084.1	NT	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8635	21715	35253	0.61	0.0E+00	U88084.1	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8697	21777	35308	0.48	0.0E+00	U84744.1	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8704	21784	35317	0.7	0.0E+00	AJ251780.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8709	21789	35323	2.81	0.0E+00	X98922.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8709	21789	35324	2.81	0.0E+00	X98922.1	NT	Human Chediak-Higashi syndrome protein short isoform (LYST) mRNA, complete cds
8709	21789	35325	2.81	0.0E+00	X98922.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and XLaiphas (partial) genes
8709	21789	35325	2.81	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8709	21789	35325	2.81	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8723	21803	35339	0.76	0.0E+00	U82979.1	NT	Human immunoglobulin-like transcript-3 mRNA, complete cds
8765	21844	35385	0.81	0.0E+00	AF022855.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8765	21844	35386	0.81	0.0E+00	AF022855.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8768	21847	35388	0.67	0.0E+00	AU131671.1	EST_HUMAN	AU131671 NT2RP3 Homo sapiens cDNA clone NT2RP3003016 5'
8784	21863	35408	0.64	0.0E+00	11426572	NT	Homo sapiens immunoglobulin superfamily, member 2 (IGSF2), mRNA
8788	21867		1.35	0.0E+00	AW513513.1	EST_HUMAN	xx46e01.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2707032 3' similar to gb:1M14123_cds4
8790	21868		0.54	0.0E+00	BE783232.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
8791	21870	35409	1.62	0.0E+00	D52850.1	EST_HUMAN	HUM084C02B Clontech human fetal brain polyA+ mRNA (#8535) Homo sapiens cDNA clone GEN-084C02
8823	21902	35442	4.15	0.0E+00	BE378495.1	EST_HUMAN	601238488F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608709 5'
8829	21908	35446	2.15	0.0E+00	AA410545.1	EST_HUMAN	232e04.t1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:724082 5'
8831	21910		1.35	0.0E+00	BF313946.1	EST_HUMAN	601600671F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129744 5'
8838	21917	35455	0.54	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3
8843	21922	35460	1.41	0.0E+00	AW139673.1	EST_HUMAN	(LILRB3), mRNA
8843	21922	35461	1.41	0.0E+00	AW139673.1	EST_HUMAN	U1H-B11-adr-e-12-0-U1.st NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'
8879	21958	35493	2.16	0.0E+00	BE260272.1	EST_HUMAN	U1H-B11-adr-e-12-0-U1.st NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'
8884	21963	35497	2.91	0.0E+00	BF700165.1	EST_HUMAN	601150051F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502838 5'
8884	21963	35498	2.91	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8884	21963	35499	2.91	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8923	22002	35541	0.84	0.0E+00	AL449770.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8930	22008	35547	3.69	0.0E+00	AA962527.1	EST_HUMAN	AL449770 Homo sapiens fetal brain (Starvrides GS) Homo sapiens cDNA
8938	22015	35555	3.41	0.0E+00	10947037	NT	080g02.st NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602194 3' similar to gb:M36072 50S
8938	22015	35556	3.41	0.0E+00	10947037	NT	RIBOSOMAL PROTEIN L7A (HUMAN);
8961	22040	35583	1.65	0.0E+00	Y11107.3	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8963	22042	35585	1.08	0.0E+00	BE278917.1	EST_HUMAN	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8973	22052		2.86	0.0E+00	AV718377.1	EST_HUMAN	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41
8980	22059	35600	3.12	0.0E+00	AW337277.1	EST_HUMAN	601150330F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139734 5'
8986	22065	35605	1.59	0.0E+00	AU124051.1	EST_HUMAN	AV718377 FHTB Homo sapiens cDNA clone FHTBAAF11 5'
9063	22142	35687	0.98	0.0E+00	AU140704.1	EST_HUMAN	xx73c07.x1 NCI_CGAP_Pant1 Homo sapiens cDNA clone IMAGE:2833644 3' similar to gb:X53587
9073	22152	35688	0.64	0.0E+00	AB007923.1	NT	INTEGRIN BETA-4 SUBUNIT PRECURSOR (HUMAN);
							AU124061 NT2RM2 Homo sapiens cDNA clone NT2RM2001575 5'
							AU140704 PLACE4 Homo sapiens cDNA clone PLACE4000089 5'
							Homo sapiens mRNA for KIAA0454 protein, partial cds

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9078	22157	35700	0.88	0.0E+00	R17132.1	EST_HUMAN	Yg09a09.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31874 5'
9078	22157	35701	0.88	0.0E+00	R17132.1	EST_HUMAN	Yg09a09.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31874 5'
9082	22161	35703	4.78	0.0E+00	AW592233.1	EST_HUMAN	H48a09.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2935096 3'
9082	22161	35704	4.78	0.0E+00	AW592233.1	EST_HUMAN	H48a09.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2935096 3'
9129	22208	35751	0.93	0.0E+00	AV714764.1	EST_HUMAN	AV714764 DCB Homo sapiens cDNA clone DCSAUA06 5'
9145	22224	35786	3.17	0.0E+00	AL040428.1	EST_HUMAN	DKFZp434C1814_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1814 3'
9145	22224	35767	3.17	0.0E+00	AL040428.1	EST_HUMAN	DKFZp434C1814_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1814 3'
9151	22229	35773	1.32	0.0E+00	AF133901.1	NT	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
9153	22231	35778	2.12	0.0E+00	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9161	22239		0.61	0.0E+00	BF058289.1	EST_HUMAN	7k29p03.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3476682 3' similar to TR:O36448 O36448 S GAG ;
9181	22269	35808	2.79	0.0E+00	11422857	NT	Homo sapiens tumor protein p73 (TP73), mRNA
9201	22278	35818	1.59	0.0E+00	K01241.1	NT	Homo sapiens rearranged H-chain epsilon-3 pseudogene, constant region
9209	22287	35828	5.28	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
9209	22287	35829	5.28	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
9214	22292	35835	1.84	0.0E+00	AV660739.1	EST_HUMAN	AV660739 GLC Homo sapiens cDNA clone GLCGK12 3'
9220	22298	35841	3.41	0.0E+00	7708638	NT	Homo sapiens polyomycin-L (PKDL), mRNA
9225	22303	35846	0.6	0.0E+00	BE793326.1	EST_HUMAN	601688304F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942553 5'
9249	22323	35867	4.22	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
9246	22323	35868	4.22	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
9256	22333	35883	0.6	0.0E+00	BE612721.1	EST_HUMAN	601492582F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3858100 5'
9259	22336	35884	0.6	0.0E+00	BE612721.1	EST_HUMAN	601492582F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3858100 5'
9259	22336		0.64	0.0E+00	M89986.1	NT	Human polymorphic loci in Xq28
9281	22338	35888	1.65	0.0E+00	X14786.1	NT	Human mRNA for GABA-A receptor, alpha 1 subunit
9279	22355	35905	0.53	0.0E+00	AU127096.1	EST_HUMAN	AU127096 NT2RP2 Homo sapiens cDNA clone NT2RP2000579 5'
9283	22359	35909	0.83	0.0E+00	A1061395.1	EST_HUMAN	an29a04.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700094 3'
9288	22364	35913	1.96	0.0E+00	A1954607.1	EST_HUMAN	wq34a12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2473150 3' similar to SW:MGB3_HUMAN
9283	22369	35919	5.69	0.0E+00	9256595	NT	O15480 MELANOMA-ASSOCIATED ANTIGEN B3 ;
9303	22379	35930	2.73	0.0E+00	AW98831.1	EST_HUMAN	Homo sapiens protocadherin alpha 8 (PCDH8), mRNA
9313	22389	35940	1.32	0.0E+00	9635487	NT	EST370361 MAGe resequences, MAGe Homo sapiens cDNA
9328	22404	35958	0.84	0.0E+00	AU142662.1	EST_HUMAN	Human endogenous retrovirus, complete genome
9344	22420	35974	1.04	0.0E+00	11436895	NT	AU142662 Y79AA1 Homo sapiens cDNA clone Y79AA1000578 5'
							Homo sapiens MAP-kinase activating death domain (MADD), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9345	22421		0.76	0.0E+00	BE410768.1	EST_HUMAN	601301876F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3838163 5'
9359	22434	35893	1.32	0.0E+00	BF002024.1	EST_HUMAN	7g97112.x1 NCI_CGAP_Col16 Homo sapiens cDNA clone IMAGE:3314471 3' similar to TR:Q9UH82
9373	22448	36009	1.62	0.0E+00	AB011150.1	NT	Q9UH62 HYPOTHETICAL 42.5 KD PROTEIN. ;
9374	22449	36010	3.42	0.0E+00	BE794823.1	EST_HUMAN	Homo sapiens mRNA for KIAA0578 protein, partial cds
9378	22453	36015	0.47	0.0E+00	BE810292.1	EST_HUMAN	601589294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'
9378	22453	36016	0.47	0.0E+00	BE810292.1	EST_HUMAN	RC3-PT0151-290600-011-c05 PT0151 Homo sapiens cDNA
9381	22456	36019	0.97	0.0E+00	AU136229.1	EST_HUMAN	RC3-PT0151-290600-011-c05 PT0151 Homo sapiens cDNA
9388	22461	36024	1.19	0.0E+00	BE883843.1	EST_HUMAN	AU136229 PLACET1 Homo sapiens cDNA clone IMAGE:1003804 5'
9388	22461	36025	1.19	0.0E+00	BE883843.1	EST_HUMAN	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911988 5'
9403	22477	36040	0.67	0.0E+00	AB011168.1	EST_HUMAN	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911988 5'
9407	22481	36044	1.43	0.0E+00	AA344601.1	EST_HUMAN	Homo sapiens mRNA for KIAA0394 protein, partial cds
9407	22481	36045	1.43	0.0E+00	AA344601.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9464	22521	36083	0.96	0.0E+00	AW673469.1	EST_HUMAN	ba6408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60276 O60276
9464	22521	36084	0.96	0.0E+00	AW673469.1	EST_HUMAN	KIAA0522 PROTEIN ;
9498	22554	36116	0.99	0.0E+00	BE207063.1	EST_HUMAN	ba6408.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60276 O60276
9498	22554	36117	0.99	0.0E+00	BE207063.1	EST_HUMAN	KIAA0522 PROTEIN ;
9509	22775	36346	1.95	0.0E+00	BF348013.1	EST_HUMAN	ba09f05.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus
9545	22810	36176	3.1	0.0E+00	BE712515.1	EST_HUMAN	Bcl-xL mRNA, complete cds (MOUSE);
9577	22719	36287	0.49	0.0E+00	BF034377.1	EST_HUMAN	Bcl-xL mRNA, complete cds (MOUSE);
9577	22719	36288	0.49	0.0E+00	BF034377.1	EST_HUMAN	602023150F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4158300 5'
9583	22725	36285	0.56	0.0E+00	A1906351.1	EST_HUMAN	QV2-HT0698-250700-282-508 HT0698 Homo sapiens cDNA
9586	22728	36297	0.77	0.0E+00	5803069	NT	601455116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9586	22728	36298	0.77	0.0E+00	5803069	NT	601455116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9598	22851	36223	0.85	0.0E+00	AL042276.1	EST_HUMAN	RC-BT108-040399-032 BT108 Homo sapiens cDNA
9631	22886	36257	1.3	0.0E+00	A1069043.1	EST_HUMAN	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9638	21081	34592	0.67	0.0E+00	BF309862.1	EST_HUMAN	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
							DKFZp434L0120.1_134 (synonym: hies3) Homo sapiens cDNA clone DKFZp434L0120 5'
							aw60h01.x1 Scores_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1651249 3' similar to TR:Q14677 Q14677 KIAA0171 PROTEIN ;
							601892245F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138066 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9640	21083	34596	2.32	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9640	21083	34596	2.32	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9642	21085	34599	6.52	0.0E+00	A1290909.1	EST_HUMAN	qm09a06.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
9642	21085	34600	6.52	0.0E+00	A1290909.1	EST_HUMAN	qm09a06.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
9643	21086	34601	2.15	0.0E+00	AW053336.1	EST_HUMAN	EST366028 IMAGE resequences, MAGC Homo sapiens cDNA
9670	22632	36201	3.95	0.0E+00	AF153466.1	NT	Homo sapiens polyomavirus kidney disease 2-like protein (PKD2L) gene, exon 8
9673	22635	36206	0.89	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9673	22635	36206	0.89	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9683	22732	36305	5.87	0.0E+00	BE255829.1	EST_HUMAN	601105942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'
9686	22735	36305	1.44	0.0E+00	BE781392.1	EST_HUMAN	601466828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9686	22735	36306	1.44	0.0E+00	BE781392.1	EST_HUMAN	601466828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9688	22737	36307	5.46	0.0E+00	AW163779.1	EST_HUMAN	au86c04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to gb:M36072
9697	22746	36315	0.58	0.0E+00	D87675.1	NT	60S RIBOSOMAL PROTEIN L7A (HUMAN);
9709	22758	36329	3.41	0.0E+00	BE263191.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
9727	22792	36364	4.49	0.0E+00	C06193.1	EST_HUMAN	601145054F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'
9727	22792	36365	4.49	0.0E+00	C06193.1	EST_HUMAN	C06168 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9729	22784	36368	3.38	0.0E+00	BE746213.1	EST_HUMAN	C06168 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9739	22804	36378	2.03	0.0E+00	11437282	NT	601578883F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927548 5'
9739	22804	36379	2.03	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9739	22804	36379	2.03	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9759	22897	36265	1.91	0.0E+00	BE900549.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9778	22816	36394	1.5	0.0E+00	AV701829.1	EST_HUMAN	601673425F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'
9788	22828	36405	2.55	0.0E+00	AF019084.1	NT	AV701829 ADB Homo sapiens cDNA clone ADBBYH01 5'
9821	22861	36442	1.13	0.0E+00	BE082977.1	EST_HUMAN	Homo sapiens keratin 2e (KRT2E) gene, complete cds
9841	22881	36464	1.72	0.0E+00	AW500293.1	EST_HUMAN	Homo sapiens keratin 2e (KRT2E) gene, complete cds
9841	22881	36465	1.72	0.0E+00	AW500293.1	EST_HUMAN	RC2-B70642-130300-017-g01 BT0642 Homo sapiens cDNA
9850	22890	36470	1.87	0.0E+00	AF029308.1	NT	UI-HF-BN0-akg-b-12-0-UJ.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3075943 5'
9850	22890	36471	1.87	0.0E+00	AF029308.1	NT	UI-HF-BN0-akg-b-12-0-UJ.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3075943 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9852	22892	36472	0.52	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9852	22892	36473	0.52	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9851	22801	36485	0.63	0.0E+00	W69629.1	EST_HUMAN	z10e11.17 Soares fetal heart NBHH19W Homo sapiens cDNA clone IMAGE:340844 5'
9881	22901	36486	0.63	0.0E+00	W56629.1	EST_HUMAN	z10e11.17 Soares fetal heart NBHH19W Homo sapiens cDNA clone IMAGE:340844 5'
9874	22914	36499	0.46	0.0E+00	AF208054.1	NT	Homo sapiens non-inhibitory killer-cell Ig-like receptor KIR (KIR2DS5) mRNA, complete cds
9876	22915	36500	1.04	0.0E+00	AB035356.1	NT	Homo sapiens mRNA for neurixin I-alpha protein, complete cds
9879	22919		0.64	0.0E+00	A1124780.1	EST_HUMAN	am5aa11.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539548 3'
9881	22921	36505	3	0.0E+00	AW500529.1	EST_HUMAN	U1-HF-BNO-alk-c-07-Q-U1.17 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077364 5'
9825	22895	36564	2.65	0.0E+00	AF009668.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
9853	22892	36585	2.69	0.0E+00	S78468.1	NT	AlGF=androgen-induced growth factor AlGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9853	22892	36586	2.69	0.0E+00	S78468.1	NT	AlGF=androgen-induced growth factor AlGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9856	22895	36591	2.72	0.0E+00	BE563320.1	EST_HUMAN	601334603F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688680 5'
9878	23015	36608	1.26	0.0E+00	AW363135.1	EST_HUMAN	CM2-CT0311-301189-043-H11 CT0311 Homo sapiens cDNA
9897	23035	36627	0.66	0.0E+00	11436432	NT	Homo sapiens mullerian (VMRN), mRNA
9898	23036	36628	0.62	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
10007	23045	36638	0.91	0.0E+00	BE206710.1	EST_HUMAN	bb28c01.x1 NIH_MGC_5 Homo sapiens cDNA clone IMAGE:2864000 3'
10024	23062	36658	4.49	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10024	23062	36659	4.49	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10033	23071	36671	0.95	0.0E+00	AW500936.1	EST_HUMAN	U1-HF-BPOp-alk-4-05-Q-U1.17 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072697 5'
10039	23077	36677	13.26	0.0E+00	BE740490.1	EST_HUMAN	60169558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
10039	23077	36678	13.26	0.0E+00	BE740490.1	EST_HUMAN	60169558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
10062	23080	36692	1.66	0.0E+00	7862067	NT	Homo sapiens KIAA0348 gene product (KIAA0348), mRNA
10066	23107	36710	1.54	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434L0120 5'
10074	23112	36716	0.57	0.0E+00	AL041084.2	EST_HUMAN	DKFZp434B2416.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434B2416 5'
10084	23122	36723	2.32	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
10085	23123	36724	2.16	0.0E+00	AF152308.1	NT	Homo sapiens protocadherin alpha 12 (PCDH-alpha12) mRNA, complete cds
10112	23150	36751	2.84	0.0E+00	AF068220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
10112	23150	36752	2.84	0.0E+00	AF068220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
10128	23166	36765	2.76	0.0E+00	BF092898.1	EST_HUMAN	MR4-TN0114-110900-101-e04 TN0114 Homo sapiens cDNA
10160	23197	36793	1.13	0.0E+00	BE280793.1	EST_HUMAN	601165227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138798 5'
10169	23206	36799	6.57	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10169	23206	36800	6.57	0.0E+00	BE388700.1	EST_HUMAN	60128635F1 NIH_JMGC_44 Homo sapiens cDNA clone IMAGE:3813045 5'
10178	23215	36806	0.87	0.0E+00	AW239289.1	EST_HUMAN	xt72501.x1 NCL_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2699977 3' similar to gb:X02152_cds1 L-
10179	23216	36807	0.84	0.0E+00	AA341305.1	EST_HUMAN	LACTATE DEHYDROGENASE M CHAIN (HUMAN);
10188	23225	36819	0.69	0.0E+00	11427235	NT	EST46740 Fetal kidney II Homo sapiens cDNA 5' end
10208	23244	36834	0.84	0.0E+00	AW664113.1	EST_HUMAN	Homo sapiens Chediak-Higashi syndrome 1 (CHST1), mRNA
10222	23258	36845	5.99	0.0E+00	AU143673.1	EST_HUMAN	EST376186 MAGE sequences, MAGE-H Homo sapiens cDNA
10222	23258	36846	5.99	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'
10225	23261	36849	3.31	0.0E+00	AF072408.1	NT	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'
10228	23263	36851	2.75	0.0E+00	11421001	NT	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
10228	23263	36852	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
10261	23296	36894	3.07	0.0E+00	AU136637.1	EST_HUMAN	Homo sapiens HEF like Protein (HEFL), mRNA
10261	23296	36895	3.07	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
10277	23312	36909	2	0.0E+00	AJ295844.1	NT	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
10277	23312	36910	2	0.0E+00	AJ295844.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/importin7 and partial ZNF143 gene
10282	23317	36917	0.73	0.0E+00	AV695712.1	EST_HUMAN	Homo sapiens partial RANBP7 gene for RANBP7/importin7 and partial ZNF143 gene
10282	23317	36918	0.73	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GKX Homo sapiens cDNA clone GKDXA07 5'
10288	23323	36925	0.72	0.0E+00	AF072408.1	EST_HUMAN	AV695712 GKX Homo sapiens cDNA clone GKDXA07 5'
10290	23325	36928	2.42	0.0E+00	AA196387.1	EST_HUMAN	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
10317	23352	36959	0.76	0.0E+00	AA131248.1	EST_HUMAN	z97h11.1 Stralagene muscle 637208 Homo sapiens cDNA clone IMAGE:628197 5'
10317	23352	36960	0.76	0.0E+00	AA131248.1	EST_HUMAN	ZS101.1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10359	23394	37005	1.01	0.0E+00	AF179303.1	NT	ZS101.1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10404	23439	37046	0.99	0.0E+00	BE860658.1	EST_HUMAN	Homo sapiens KIF4 (KIF4) mRNA, complete cds
10417	23462	37057	5.34	0.0E+00	BE730772.1	EST_HUMAN	601481565F1 NIH_JMGC_69 Homo sapiens cDNA clone IMAGE:3893667 5'
10417	23462	37058	5.34	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_JMGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10422	23457	37062	0.8	0.0E+00	AU127403.1	EST_HUMAN	601570712F1 NIH_JMGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10432	23467	37073	0.89	0.0E+00	BE68511.1	EST_HUMAN	AU127403 NT2RP2 Homo sapiens cDNA clone NT2RP2001212 5'
10432	23467	37074	0.89	0.0E+00	BE68511.1	EST_HUMAN	601645134F1 NIH_JMGC_56 Homo sapiens cDNA clone IMAGE:3830177 5'
10432	23467	37074	0.89	0.0E+00	BE68511.1	EST_HUMAN	601645134F1 NIH_JMGC_56 Homo sapiens cDNA clone IMAGE:3830177 5'
10450	23485	37084	0.48	0.0E+00	BE697487.1	EST_HUMAN	601432317F1 NIH_JMGC_72 Homo sapiens cDNA clone IMAGE:3817453 5'
10460	23495	37107	0.91	0.0E+00	AA311624.1	EST_HUMAN	EST182353 Jurkat T-cells VI Homo sapiens cDNA 5' end
10461	23498	37108	0.55	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
10473	23508	37121	0.64	0.0E+00	BE991113.1	EST_HUMAN	601432228F1 NIH_JMGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10475	23510	37123	0.77	0.0E+00	11560151	NT	601432228F1 NIH_JMGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10486	23521	37130	1.56	0.0E+00	AB029290.1	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
							Homo sapiens mRNA for actin binding protein ABP820, complete cds

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10487	23522	37131	0.5	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:2987918 5'
10487	23522	37132	0.5	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987918 5'
10484	23529	37137	5.8	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10484	23529	37138	5.8	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10502	23537	37147	0.77	0.0E+00	AA704457.1	EST_HUMAN	Z19508.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:460707 3' similar to gb:M14123 cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10504	23539	37148	1.08	0.0E+00	M22921.1	NT	Human beta 1,4-galactosyltransferase mRNA, complete cds
10508	23541	37151	4.81	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCL_CGAP_Bin84 Homo sapiens cDNA clone IMAGE:4184939 5'
10508	23541	37152	4.81	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCL_CGAP_Bin84 Homo sapiens cDNA clone IMAGE:4184939 5'
10530	23565	37172	0.59	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10530	23565	37173	0.59	0.0E+00	BE897149.1	EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10596	23630	37237	1.07	0.0E+00	AI631818.1	EST_HUMAN	wa38603.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204 Q61204 NOTCH2-LIKE;
10595	23630	37238	1.07	0.0E+00	AI631818.1	EST_HUMAN	wa38603.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204 Q61204 NOTCH2-LIKE;
10610	23644	37262	1.64	0.0E+00	T03078.1	EST_HUMAN	FB23A4 Fetal brain, Stratiogene Homo sapiens cDNA clone FB23A4 3' end
10638	23672	37282	0.87	0.0E+00	AU122429.1	EST_HUMAN	AU122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002368 5'
10644	23678	37288	0.48	0.0E+00	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
10668	23702	37312	2.23	0.0E+00	BF436218.1	EST_HUMAN	nab45e12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3285271 3'
10669	23703		1.71	0.0E+00	AV654765.1	EST_HUMAN	AV654765 GLC Homo sapiens cDNA clone GLOC2C07 3'
10689	23722	37328	3.08	0.0E+00	AW617960.1	EST_HUMAN	ku74b01.x1 NCL_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb:M69066 MOESIN (HUMAN);
10693	23726	37332	2.88	0.0E+00	BE549213.1	EST_HUMAN	601078764F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3463703 5'
10709	23742	37348	0.82	0.0E+00	11436005	NT	Homo sapiens hypothetical protein DKFZp761P1010 (DKFZp761P1010), mRNA
10735	23769	37378	0.52	0.0E+00	X98983.1	NT	H. sapiens mRNA for NK receptor (183 Acl)
10736	23769	37379	3.35	0.0E+00	BE781742.1	EST_HUMAN	601467419F1 NIH_MGC_97 Homo sapiens cDNA clone IMAGE:3870700 5'
10758	23791	37409	2.32	0.0E+00	BE082720.1	EST_HUMAN	RC2-BT0842-150200-012-403 B70642 Homo sapiens cDNA
10758	23791	37410	2.32	0.0E+00	BE082720.1	EST_HUMAN	RC2-BT0842-150200-012-403 B70642 Homo sapiens cDNA
10764	23797	37417	0.57	0.0E+00	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
10772	23805	37428	0.77	0.0E+00	AI656890.1	EST_HUMAN	tt84e07.x1 NCL_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2244612 3'
10779	23812	37435	8.15	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3335198 5'
10779	23812	37436	9.15	0.0E+00	BE743215.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3335198 5'
10784	23817	37439	0.63	0.0E+00	BE617655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845956 3'
10784	23817	37440	0.63	0.0E+00	BE617655.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845956 3'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Description
10786	23819	37442	0.46	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10788	23819	37443	0.46	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10809	23842	37465	0.51	0.0E+00	H39805.1	EST_HUMAN	yp01a10.1 Scores breast 3NBH8at Homo sapiens cDNA clone IMAGE:186138 5'
10835	23868	37491	0.54	0.0E+00	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10846	23879	37499	0.59	0.0E+00	BE392276.1	EST_HUMAN	601308167F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3626128 5'
10863	23888	37518	0.52	0.0E+00	AU125996.1	EST_HUMAN	60125996 NT2RM4 Homo sapiens cDNA clone NT2RM4002538 5'
10872	23857	37586	1.84	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CuAAKG05 5'
10872	23857	37587	1.84	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Cu Homo sapiens cDNA clone CuAAKG05 5'
10874	23859	37595	2.55	0.0E+00	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
10882	23868	37595	5.5	0.0E+00	AW963563.1	EST_HUMAN	EST379636 MAGe resequences, MAGH Homo sapiens cDNA
10885	23879	37610	2.52	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10895	23979	37611	2.52	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10898	23982	37614	1.7	0.0E+00	AW057621.1	EST_HUMAN	wy6109.x1 Scores NSF_F8_0W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2653065 3' similar to TR-Q80566 Q80566 VDX
10906	23989	37621	8.59	0.0E+00	BE244270.1	EST_HUMAN	TCAAP3D0917 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project-TCAA Homo sapiens cDNA clone TCAAP0917
10907	23990	37622	2.72	0.0E+00	AI652239.1	EST_HUMAN	wb23a12.x1 NCL_CGAP_G06 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element
10907	23990	37623	2.72	0.0E+00	AI652239.1	EST_HUMAN	MSR1 MSR1 repetitive element
10912	23995	37628	1.48	0.0E+00	BF306642.1	EST_HUMAN	MSR1 MSR1 repetitive element
10913	23998	37629	1.74	0.0E+00	BE872608.1	EST_HUMAN	601888704F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122649 5'
10913	23998	37630	1.74	0.0E+00	BE872608.1	EST_HUMAN	601451502F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3855289 5'
10920	24003	37637	3.59	0.0E+00	11545811	NT	601451502F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3855289 5'
10920	24003	37638	3.59	0.0E+00	11545811	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10936	24018	37651	1.52	0.0E+00	AW404795.1	EST_HUMAN	Homo sapiens NOD2 protein (NOD2), mRNA
10940	24022	37656	2.85	0.0E+00	11424828	NT	UI-HF-BL0-acm-3-04-0-U1r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3056983 5'
10941	24023	37657	8.39	0.0E+00	4504536	NT	Homo sapiens hypodermal protein FLJ20078 (FLJ20078), mRNA
10941	24023	37658	8.39	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10942	24024	37659	2.68	0.0E+00	AI991827.1	EST_HUMAN	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10946	24028	37665	3.22	0.0E+00	BE882109.1	EST_HUMAN	wu32806.x1 Scores Diackgraeae_colon_NHCD Homo sapiens cDNA clone IMAGE:2521715 3'
10950	24032	37667	6.12	0.0E+00	BE891630.1	EST_HUMAN	601505204F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3066965 5'
10952	24034	37668	1.55	0.0E+00	8922939	NT	601434522F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919636 5'
10952	24034	37668	1.55	0.0E+00	8922939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10952	24034	37669	1.55	0.0E+00	8922939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10965	24046	37680	22.14	0.0E+00	BE003304.1	EST_HUMAN	601674332F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3957343 5'
10968	19087	32399	1.65	0.0E+00	AA195905.1	EST_HUMAN	2965b11.r1 Stratiene muscle 937209 Homo sapiens cDNA clone IMAGE:627933 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
10980	24069	37703	4.49	0.0E+00	BE193498.1	EST_HUMAN	601589829F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943016 5'
10986	24077	37710	2.4	0.0E+00	BE1729708.1	EST_HUMAN	601582864F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10988	24071	37711	2.4	0.0E+00	BE1729706.1	EST_HUMAN	601562864F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10989	24078	37712	11.66	0.0E+00	AV1727382.1	EST_HUMAN	AV1727362 HTC Homo sapiens cDNA clone HTCAQH08 5'
10989	24078	37713	11.66	0.0E+00	AV1727382.1	EST_HUMAN	AV1727362 HTC Homo sapiens cDNA clone HTCAQH08 5'
11003	24082	37718	1.6	0.0E+00	R17132.1	EST_HUMAN	Y09e09.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31674 5'
11003	24082	37719	1.6	0.0E+00	R17132.1	EST_HUMAN	Y09e09.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31674 5'
11009	24088		2.62	0.0E+00	AW1739414.1	EST_HUMAN	U1-H-B11-adt-a-06-Q-U1.s1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717874 3'
11014	24093	37732	11.81	0.0E+00	AW516055.1	EST_HUMAN	X04010.x1 NCI CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852226 3' similar to gb:M60854 40S RBOSOMAL PROTEIN S16 (HUMAN);
11020	24099	37737	4.44	0.0E+00	AUT37441.1	EST_HUMAN	AUT38741 PLACE1 Homo sapiens cDNA clone PLACE1002794 5'
11026	24105	37741	2.66	0.0E+00	AW593333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2845475 3' similar to contains element MSR1 repetitive element;
11026	24105	37742	2.66	0.0E+00	AW593333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2845475 3' similar to contains element MSR1 repetitive element;
11026	24105	37743	2.56	0.0E+00	AW593333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2845475 3' similar to contains element MSR1 repetitive element;
11028	24107	37744	1.87	0.0E+00	Z34997.1	NT	H sapiens mRNA for HT histamine receptor
11029	24108	37745	2.76	0.0E+00	F13069.1	EST_HUMAN	HSC3IQ031 normalized infant brain cDNA Homo sapiens cDNA clone IMAGE:2845475 3' similar to contains element MSR1 repetitive element;
11037	24118	37760	2.35	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
11054	24131	37767	1.71	0.0E+00	AW338094.1	EST_HUMAN	xw6601.x1 NCI CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2832985 3' similar to gb:X17116 IG MU CHAIN C REGION (HUMAN);
11055	24132	37768	3.75	0.0E+00	AW451230.1	EST_HUMAN	U1-H-B13-ali-a-01-Q-U1.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
11058	24132	37769	3.75	0.0E+00	AW451230.1	EST_HUMAN	U1-H-B13-ali-a-01-Q-U1.s1 NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'
11058	13443		9.52	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
11080	24136	37771	1.79	0.0E+00	AB014567.1	NT	Homo sapiens mRNA for KIAA0667 protein, partial cds
11073	24148	37787	1.92	0.0E+00	BE298446.1	EST_HUMAN	601119248F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029219 5'
11087	24161	37787	1.47	0.0E+00	AB011117.1	NT	Homo sapiens mRNA for KIAA0645 protein, partial cds
11087	24161	37787	1.47	0.0E+00	AB011117.1	NT	Homo sapiens mRNA for KIAA0645 protein, partial cds
11092	24166	37803	1.39	0.0E+00	AA317506.1	EST_HUMAN	EST90347 Synovial sarcoma Homo sapiens cDNA 5' end similar to LERK-2, placenta
11106	24178	37813	3.3	0.0E+00	BE782165.1	EST_HUMAN	6011882046F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3963539 5'
11106	24178	37813	3.3	0.0E+00	BE782165.1	EST_HUMAN	6011882046F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3963539 5'
11106	24178	37813	3.3	0.0E+00	BE782165.1	EST_HUMAN	6011882046F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3963539 5'

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Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11108	24180	37814	1.45	0.0E+00	BE269288.1	EST_HUMAN	601185342F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3544259 5'
11110	24182	37816	7.93	0.0E+00	AU118396.1	EST_HUMAN	AU118396 HEMBA1 Homo sapiens cDNA clone HEMBA1003486 5'
11111	24183		1.81	0.0E+00	AW236269.1	EST_HUMAN	x072501.x1 NCL_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2699977 3' similar to gb:X02162_cds1 L-LACTATE DEHYDROGENASE M CHAIN (HUMAN);
11116	24188	37820	5.71	0.0E+00	A1149809.1	EST_HUMAN	q43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
11116	24188	37821	5.71	0.0E+00	A1149808.1	EST_HUMAN	q43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3'
11117	24189	37822	2.53	0.0E+00	AW351937.1	EST_HUMAN	QV4-ST0234-121199-032-505 ST0234 Homo sapiens cDNA
11127	24189		11.83	0.0E+00	AU116908.1	EST_HUMAN	AU116908 HEMBA1 Homo sapiens cDNA clone HEMBA1000255 5'
11130	24202	37827	9.67	0.0E+00	11424726	NT	Homo sapiens insulin receptor (INSR), mRNA
11132	24204	37828	2.14	0.0E+00	A1367350.1	EST_HUMAN	q95c12.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:1988334 3' similar to TR:Q14673 Q14673 KIAA0164 PROTEIN.;
11132	24204	37829	2.14	0.0E+00	A1367350.1	EST_HUMAN	q95c12.x1 NCL_CGAP_U12 Homo sapiens cDNA clone IMAGE:1988334 3' similar to TR:Q14673 Q14673 KIAA0164 PROTEIN.;
11137	24209	37835	1.63	0.0E+00	BF340308.1	EST_HUMAN	602037014F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184979 5'
11139	24211	37837	13.91	0.0E+00	BE261209.1	EST_HUMAN	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'
11144	24216	37843	2.19	0.0E+00	AB028040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
11147	24219	37846	1.51	0.0E+00	AB007932.1	NT	Homo sapiens mRNA for KIAA0463 protein, partial cds
11151	24222	37850	3.89	0.0E+00	U50326.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 15-17
11155	24226	37855	2.43	0.0E+00	BE773036.1	EST_HUMAN	RC1-F10134-170700-012-407 F10134 Homo sapiens cDNA
11155	24226	37856	2.43	0.0E+00	BE773036.1	EST_HUMAN	RC1-F10134-170700-012-407 F10134 Homo sapiens cDNA
11177	24246	37879	51.22	0.0E+00	AA740782.1	EST_HUMAN	0332407.s1 NCL_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325412 3' similar to contains element MSR1 repetitive element;
11186	24255	37880	2.81	0.0E+00	AF252303.1	NT	Homo sapiens signaling lymphocytic activation molecule (SLAM) gene, exon 2
11199	24268	37903	1.71	0.0E+00	BE266478.1	EST_HUMAN	601192748F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3536867 5'
11199	24268	37904	1.71	0.0E+00	BE266478.1	EST_HUMAN	601192748F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3536867 5'
11201	24270	37906	4.9	0.0E+00	C05089.1	EST_HUMAN	C05089 Human heart cDNA (YNAikamura) Homo sapiens cDNA clone 3NHC4817
11208	24277	37914	2.1	0.0E+00	AA746375.1	EST_HUMAN	oa58h01.r1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
11208	24277	37915	2.1	0.0E+00	AA746375.1	EST_HUMAN	oa58h01.r1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
11218	24287	37926	2.68	0.0E+00	M78446.1	EST_HUMAN	EST100596 Fetal brain, Stratagene (cat#36206) Homo sapiens cDNA clone HFBCC26
11218	24287	37927	2.69	0.0E+00	M78446.1	EST_HUMAN	EST100596 Fetal brain, Stratagene (cat#36206) Homo sapiens cDNA clone HFBCC26
11221	24290	37930	1.76	0.0E+00	BF556625.1	EST_HUMAN	QV2-HT0698-020800-295-d07 HT0698 Homo sapiens cDNA
11222	24291	37931	6.6	0.0E+00	AL157608.1	EST_HUMAN	DKFZp761J2116_r1.761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761J2116 5'
11234	24303	37940	1.86	0.0E+00	BE562822.1	EST_HUMAN	601336530F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690390 5'
11236	24305	37942	6.05	0.0E+00	AU116988.1	EST_HUMAN	AU116988 HEMBA1 Homo sapiens cDNA clone HEMBA1000424 5'

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11250	24319	37959	1.75	0.0E+00	AV693656.1	EST_HUMAN	AV693656 GK6 Homo sapiens cDNA clone GKGCNC03 5'
11260	24329	37969	2.97	0.0E+00	BF386553.1	EST_HUMAN	IL3-NT0104-200500-143-A07 NT0104 Homo sapiens cDNA
11288	24354	37984	2.4	0.0E+00	BE182360.1	EST_HUMAN	PMO-HT0645-060500-002-E05 HT0645 Homo sapiens cDNA
11288	24354	37985	2.4	0.0E+00	BE182360.1	EST_HUMAN	PMO-HT0645-060500-002-E05 HT0645 Homo sapiens cDNA
11290	24356		1.51	0.0E+00	AV701152.1	EST_HUMAN	AV701152 ADA Homo sapiens cDNA clone ADAAAD06 5'
11306	24370	38011	3.02	0.0E+00	BE896423.1	EST_HUMAN	601439092F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924142 5'
11311	24375	38019	1.83	0.0E+00	AW500307.1	EST_HUMAN	UI-HF-BNO-akg-4-02-0-JL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
11311	24375	38020	1.83	0.0E+00	AW500307.1	EST_HUMAN	UI-HF-BNO-akg-4-02-0-JL1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
							bb78c04.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048486 5' similar to gb:Y00348_cds1 POLYADENYLATE-BINDING PROTEIN (HUMAN); gb:X65553 M.musculus mRNA for poly(A) binding protein (MOUSE);
11314	24378	38023	2.49	0.0E+00	BE018283.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11345	25899	38058	1.45	0.0E+00	AW387768.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11345	25899	38059	1.45	0.0E+00	AW387768.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11353	24415	38070	3.23	0.0E+00	BE897953.1	EST_HUMAN	601440-446F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925403 5'
11355	24417	38073	2.24	0.0E+00	AW59545.1	EST_HUMAN	ec88g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11356	24417	38074	2.24	0.0E+00	AW59545.1	EST_HUMAN	ec88g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11369	24430	38087	1.89	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_r1 434 (synonym: hias3) Homo sapiens cDNA clone DKFZp434L0120 5'
							ou61d04.x1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632295 3' similar to SW:LRP1_HUMAN Q07954 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR ;
11390	24451	38112	1.37	0.0E+00	AI073917.1	EST_HUMAN	ou61d04.x1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632295 3' similar to SW:LRP1_HUMAN Q07954 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR ;
							ou61d04.x1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632295 3' similar to SW:LRP1_HUMAN Q07954 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR ;
							ou61d04.x1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632295 3' similar to SW:LRP1_HUMAN Q07954 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR ;
11390	24451	38114	1.37	0.0E+00	AI073917.1	EST_HUMAN	ou61d04.x1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632295 3' similar to SW:LRP1_HUMAN Q07954 LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR ;
11404	24466	38130	3.8	0.0E+00	4758827	NT	Homo sapiens neuroxin III (NRXN3) mRNA
11405	24466	38131	24.41	0.0E+00	BF208591.1	EST_HUMAN	60187002F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4101433 5'
11411	24472	38137	11.85	0.0E+00	AW207734.1	EST_HUMAN	UI-H-BI2-aga-b-01-0-JLs1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'
11416	24477	38141	3.93	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11416	24477	38142	3.93	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
							ba04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B 58KDA-ASSOCIATED PROTEIN ;
11418	24479	38144	2.83	0.0E+00	BE208846.1	EST_HUMAN	58KDA-ASSOCIATED PROTEIN ;

Single Exon Probes Expressed In Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11418	24479	38145	2.63	0.0E+00	BE206848.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:Q76022 Q76022 E1B-55KDA-ASSOCIATED PROTEIN. ;
11429	24490	38155	2.37	0.0E+00	11528409	NT	Homo sapiens KIAA0428 gene product (KIAA0428), mRNA
11438	24499	38166	1.68	0.0E+00	AI075915.1	EST_HUMAN	ov46g07.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1640412 3' similar to TR:Q14507
11445	24506	38172	1.73	0.0E+00	11024711	NT	Q14607 EPIDIDYMI-SPECIFIC GENE PRODUCT, ALPHA. ;
11448	24509	38178	1.98	0.0E+00	BF093687.1	EST_HUMAN	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
11449	20710	34189	1.94	0.0E+00	L32832.1	NT	QV0-UM0091-129900-385-b12 UM0091 Homo sapiens cDNA
11452	24512	38178	4.91	0.0E+00	BE148076.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATF1-A), mRNA, complete cds
11452	24512	38179	4.61	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-Q40500-110-h04 HT0230 Homo sapiens cDNA
11475	24534	38204	1.66	0.0E+00	AW679469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;
11475	24534	38205	1.66	0.0E+00	AW679469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;
11480	24549	38223	4.84	0.0E+00	BF507876.1	EST_HUMAN	U1H-B14-ack-b-10-Q-U1.at NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
11480	24549	38224	4.84	0.0E+00	BF507876.1	EST_HUMAN	U1H-B14-ack-b-10-Q-U1.at NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
11496	24554	38229	4.65	0.0E+00	AU135170.1	EST_HUMAN	AU135170 PLAGE1 Homo sapiens cDNA clone PLAGE1001381 5'
11501	24559	38234	2.07	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11501	24559	38235	2.07	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271630 5'
11503	24561	38238	4.06	0.0E+00	BE876401.1	EST_HUMAN	601486828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
11503	24561	38239	4.06	0.0E+00	BE876401.1	EST_HUMAN	601486828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
11511	24569	38240	1.61	0.0E+00	D87682.1	NT	Human mRNA for KIAA0241 gene, partial cds
11516	24573		3.87	0.0E+00	BF240536.1	EST_HUMAN	601873630F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4098710 5'
11531	24587	38262	1.81	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11531	24587	38263	1.81	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11535	24591	38268	3.09	0.0E+00	11430888	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11535	24591	38267	3.09	0.0E+00	11430888	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11553	24608	38287	6.13	0.0E+00	4503544	NT	Homo sapiens eukaryotic translation initiation factor 5A (EIF5A), mRNA
11560	24615	38294	2.06	0.0E+00	BF576267.1	EST_HUMAN	602134132F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289502 5'
11562	24617	38297	3.53	0.0E+00	AW328173.1	EST_HUMAN	dr04g05.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2847177 5'
11567	24622		42.5	0.0E+00	M55093.1	NT	Human gamma actin-like pseudogene, complete cds
11571	24626	38305	1.75	0.0E+00	AI660968.1	EST_HUMAN	wf20e11.x1 Soares_Dieckgraebe_colon_NHUC Homo sapiens cDNA clone IMAGE:2351180 3' similar to gb:M87789 IG GAMMA-1 CHAIN C REGION (HUMAN);
11574	24629	38307	3.37	0.0E+00	BF308998.1	EST_HUMAN	601888823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11574	24629	38308	3.37	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123848 5'
11581	24635	38315	47.2	0.0E+00	BF362462.1	EST_HUMAN	QV2-NN0054-230800-333-e04 NN0054 Homo sapiens cDNA
11601	24654	38338	2.92	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11601	24654	38339	2.32	0.0E+00	U36284.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11608	24659		4.33	0.0E+00	BE997051.1	EST_HUMAN	601439605F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924577 5'
11607	24660		2.37	0.0E+00	4503786	NT	Homo sapiens fyt-related kinases (FRK) mRNA
11621	24672	38361	2.34	0.0E+00	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11623	24674		2.07	0.0E+00	BF207662.1	EST_HUMAN	601861947F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4081715 5'
11636	24716	38407	4.53	0.0E+00	BE206845.1	EST_HUMAN	ba04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN. ;
11636	24716	38408	4.53	0.0E+00	BE206846.1	EST_HUMAN	ba04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B-55KDA-ASSOCIATED PROTEIN. ;
11638	24718	38410	3.85	0.0E+00	AW763028.1	EST_HUMAN	QV0-GT0225-101299-071-f06 GT0225 Homo sapiens cDNA
11643	24723		3.01	0.0E+00	AA558707.1	EST_HUMAN	nt42608.e1 NCL_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M95178 ALPHA-ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);
11644	18590	31562	2.56	0.0E+00	AI934954.1	EST_HUMAN	wp0808.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2464094 3'
11645	24724	38416	7.51	0.0E+00	AW327895.1	EST_HUMAN	dr02508.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2846919 5'
11664	25870	38435	1.78	0.0E+00	AW292776.1	EST_HUMAN	UL-H-BW0-ajl-d-07-0-UI.s1 NCL_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729509 3'
11671	23899	37522	1.93	0.0E+00	4758827	NT	Homo sapiens neurxin III (NRXN3) mRNA
11677	24678	38367	1.33	0.0E+00	BE254058.1	EST_HUMAN	60113903F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354600 5'
11680	24679	38369	1.79	0.0E+00	BE965909.2	EST_HUMAN	60165908R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11680	24679	38370	1.79	0.0E+00	BE965909.2	EST_HUMAN	60165908R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11681	24680	38371	3.81	0.0E+00	BE185658.1	EST_HUMAN	IL5-HT0731-020500-077-05 HT0731 Homo sapiens cDNA
11682	24681		1.39	0.0E+00	BF613960.1	EST_HUMAN	UJH-BW1-amy-a-05-0-UI.s1 NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071121 3'
11686	24683	38384	7.19	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434G178 5'
11686	24683	38385	7.19	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434G178 5'
11706	24703	38395	10.19	0.0E+00	AI923116.1	EST_HUMAN	wn83g03.x1 NCL_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2452468 3' similar to gb:S37431 LAMININ RECEPTOR (HUMAN);
11708	24748	38440	4.47	0.0E+00	AA760913.1	EST_HUMAN	nz11c07.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686
11708	24748	38441	4.47	0.0E+00	AA760913.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN. ;
11713	24753	38447	2.21	0.0E+00	BE910546.1	EST_HUMAN	nz11c07.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686
11713	24753	38447	2.21	0.0E+00	BE910546.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN. ;
11713	24753	38447	2.21	0.0E+00	BE910546.1	EST_HUMAN	601501090F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902926 5'

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11723	23909	37533	11.84	0.0E+00	BE676347.1	EST_HUMAN	7127112.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3293919 3' similar to TR:Q00409 Q00408
11725	23911	37535	1.47	0.0E+00	A683358.1	EST_HUMAN	CHECKPOINT SUPPRESSOR 1.1
11727	23913	37537	3.13	0.0E+00	BE615696.1	EST_HUMAN	h66b09.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2274521 3' similar to gb:M56842
11729	23915	37539	3.13	0.0E+00	BE615696.1	EST_HUMAN	INTERFERON-INDUCED GUANYLATE-BINDING PROTEIN 1 (HUMAN);
11731	23917	37541	3.13	0.0E+00	BE615696.1	EST_HUMAN	601279335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11733	23919	37543	1.59	0.0E+00	AV757420.1	EST_HUMAN	601279335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11735	23921	37545	7.33	0.0E+00	AL037746.1	EST_HUMAN	AV767420 BM Homo sapiens cDNA clone BmFAGH03 5'
11737	23923	37547	4.2	0.0E+00	U62769.1	NT	DKFZp564C187.1 584 (synonym: h18r2) Homo sapiens cDNA clone DKFZp564C187 5'
11739	23925	37549	1.33	0.0E+00	BE683396.1	EST_HUMAN	Human cyclo-oxygenase variant 2 mRNA, complete cds
11741	23927	37551	1.75	0.0E+00	Y18890.1	NT	601509139F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910833 5'
11743	23929	37553	3.69	0.0E+00	L30891.1	EST_HUMAN	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
11745	23931	37555	3.59	0.0E+00	L30891.1	EST_HUMAN	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
11747	23933	37557	2.03	0.0E+00	AU138211.1	EST_HUMAN	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
11749	23935	37559	6.43	0.0E+00	BE622317.1	EST_HUMAN	AU138211 PLACE1 Homo sapiens cDNA clone PLACE1008077 5'
11751	23937	37561	17.72	0.0E+00	BE748999.1	EST_HUMAN	601441086F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5'
11753	23939	37563	17.72	0.0E+00	BE748999.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11755	23941	37565	4.58	0.0E+00	AU141882.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11757	23943	37567	4.58	0.0E+00	AU141882.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11759	23945	37569	4.58	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11761	23947	37571	2.7	0.0E+00	AW006022.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11763	23949	37573	2.73	0.0E+00	BF002393.1	EST_HUMAN	w291h01.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2566225 3' similar to WP.F53H10.2
11765	23951	37575	1.32	0.0E+00	C06284.1	EST_HUMAN	CE11040 ZINC FINGER, C2H2 TYPE 1
11767	23953	37577	1.56	0.0E+00	BE727811.1	EST_HUMAN	7h2b10.x1 NCI_CGAP_C016 Homo sapiens cDNA clone IMAGE:3316699 3' similar to TR:Q13458 Q13459
11769	23955	37579	2.36	0.0E+00	A1472010.1	EST_HUMAN	TRIO.1
11771	23957	37581	2.84	0.0E+00	AW387776.1	EST_HUMAN	C06284 Human pancreatic islet Homo sapiens cDNA similar to insulin receptor
11773	23959	37583	2.84	0.0E+00	AW387776.1	EST_HUMAN	601564180F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3833730 5'
11775	23961	37585	2.84	0.0E+00	AW387776.1	EST_HUMAN	gb:M31681 PROLACTIN RECEPTOR TYPE 2 PRECURSOR (HUMAN);
11777	23963	37587	1.8	0.0E+00	AW863777.1	EST_HUMAN	MR4-ST0118-261089-012-503 ST0118 Homo sapiens cDNA
11779	23965	37589	3.67	0.0E+00	U36283.1	NT	MR4-ST0118-261089-012-503 ST0118 Homo sapiens cDNA
11781	23967	37591	3.67	0.0E+00	U36283.1	NT	MR3-SN0010-310300-107-h03 SN0010 Homo sapiens cDNA
11783	23969	37593	4.38	0.0E+00	BE379254.1	EST_HUMAN	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11785	23971	37595	26.74	0.0E+00	BE379254.1	EST_HUMAN	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11787	23973	37597					Human beta-prime-adaptin (BAM22) gene, exon 5
11789	23975	37599					Human beta-prime-adaptin (BAM22) gene, exon 5
11791	23977	37601					Human beta-prime-adaptin (BAM22) gene, exon 5
11793	23979	37603					Human beta-prime-adaptin (BAM22) gene, exon 5
11795	23981	37605					Human beta-prime-adaptin (BAM22) gene, exon 5
11797	23983	37607					Human beta-prime-adaptin (BAM22) gene, exon 5
11799	23985	37609					Human beta-prime-adaptin (BAM22) gene, exon 5
11801	23987	37611					Human beta-prime-adaptin (BAM22) gene, exon 5
11803	23989	37613					Human beta-prime-adaptin (BAM22) gene, exon 5
11805	23991	37615					Human beta-prime-adaptin (BAM22) gene, exon 5
11807	23993	37617					Human beta-prime-adaptin (BAM22) gene, exon 5
11809	23995	37619					Human beta-prime-adaptin (BAM22) gene, exon 5
11811	23997	37621					Human beta-prime-adaptin (BAM22) gene, exon 5
11813	23999	37623					Human beta-prime-adaptin (BAM22) gene, exon 5
11815	24001	37625					Human beta-prime-adaptin (BAM22) gene, exon 5
11817	24003	37627					Human beta-prime-adaptin (BAM22) gene, exon 5
11819	24005	37629					Human beta-prime-adaptin (BAM22) gene, exon 5
11821	24007	37631					Human beta-prime-adaptin (BAM22) gene, exon 5
11823	24009	37633					Human beta-prime-adaptin (BAM22) gene, exon 5
11825	24011	37635					Human beta-prime-adaptin (BAM22) gene, exon 5
11827	24013	37637					Human beta-prime-adaptin (BAM22) gene, exon 5
11829	24015	37639					Human beta-prime-adaptin (BAM22) gene, exon 5
11831	24017	37641					Human beta-prime-adaptin (BAM22) gene, exon 5
11833	24019	37643					Human beta-prime-adaptin (BAM22) gene, exon 5
11835	24021	37645					Human beta-prime-adaptin (BAM22) gene, exon 5
11837	24023	37647					Human beta-prime-adaptin (BAM22) gene, exon 5
11839	24025	37649					Human beta-prime-adaptin (BAM22) gene, exon 5
11841	24027	37651					Human beta-prime-adaptin (BAM22) gene, exon 5
11843	24029	37653					Human beta-prime-adaptin (BAM22) gene, exon 5
11845	24031	37655					Human beta-prime-adaptin (BAM22) gene, exon 5
11847	24033	37657					Human beta-prime-adaptin (BAM22) gene, exon 5
11849	24035	37659					Human beta-prime-adaptin (BAM22) gene, exon 5
11851	24037	37661					Human beta-prime-adaptin (BAM22) gene, exon 5
11853	24039	37663					Human beta-prime-adaptin (BAM22) gene, exon 5
11855	24041	37665					Human beta-prime-adaptin (BAM22) gene, exon 5
11857	24043	37667					Human beta-prime-adaptin (BAM22) gene, exon 5
11859	24045	37669					Human beta-prime-adaptin (BAM22) gene, exon 5
11861	24047	37671					Human beta-prime-adaptin (BAM22) gene, exon 5
11863	24049	37673					Human beta-prime-adaptin (BAM22) gene, exon 5
11865	24051	37675					Human beta-prime-adaptin (BAM22) gene, exon 5
11867	24053	37677					Human beta-prime-adaptin (BAM22) gene, exon 5
11869	24055	37679					Human beta-prime-adaptin (BAM22) gene, exon 5
11871	24057	37681					Human beta-prime-adaptin (BAM22) gene, exon 5
11873	24059	37683					Human beta-prime-adaptin (BAM22) gene, exon 5
11875	24061	37685					Human beta-prime-adaptin (BAM22) gene, exon 5
11877	24063	37687					Human beta-prime-adaptin (BAM22) gene, exon 5
11879	24065	37689					Human beta-prime-adaptin (BAM22) gene, exon 5
11881	24067	37691					Human beta-prime-adaptin (BAM22) gene, exon 5
11883	24069	37693					Human beta-prime-adaptin (BAM22) gene, exon 5
11885	24071	37695					Human beta-prime-adaptin (BAM22) gene, exon 5
11887	24073	37697					Human beta-prime-adaptin (BAM22) gene, exon 5
11889	24075	37699					Human beta-prime-adaptin (BAM22) gene, exon 5
11891	24077	37701					Human beta-prime-adaptin (BAM22) gene, exon 5
11893	24079	37703					Human beta-prime-adaptin (BAM22) gene, exon 5
11895	24081	37705					Human beta-prime-adaptin (BAM22) gene, exon 5
11897	24083	37707					Human beta-prime-adaptin (BAM22) gene, exon 5
11899	24085	37709					Human beta-prime-adaptin (BAM22) gene, exon 5
11901	24087	37711					Human beta-prime-adaptin (BAM22) gene, exon 5
11903	24089	37713					Human beta-prime-adaptin (BAM22) gene, exon 5
11905	24091	37715					Human beta-prime-adaptin (BAM22) gene, exon 5
11907	24093	37717					Human beta-prime-adaptin (BAM22) gene, exon 5
11909	24095	37719					Human beta-prime-adaptin (BAM22) gene, exon 5
11911	24097	37721					Human beta-prime-adaptin (BAM22) gene, exon 5

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Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11911	24908	38601	26.74	0.0E+00	BE379254.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11917	24903	38606	4.87	0.0E+00	AIW500056.1	EST_HUMAN	U1HFJN0-aki-b-03-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077332 5'
11932	24918	38621	2.06	0.0E+00	BE794768.1	EST_HUMAN	601690588F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'
11934	24920	38622	65.18	0.0E+00	BE879633.1	EST_HUMAN	601491821F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3894220 5'
11935	24921	38623	1.6	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
11941	24927	38629	1.38	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
11941	24927	38630	1.38	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
11946	24932	38635	1.88	0.0E+00	AF053643.1	NT	Homo sapiens glutathione transferase zeta 1 (GSTZ1) gene, exons 6 and 7
11953	24939	38642	7.29	0.0E+00	BE409893.1	EST_HUMAN	601298403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629544 5'
11954	24940	38643	2.22	0.0E+00	BE148650.1	EST_HUMAN	MR0-HT0241-150500-011-02 HT0241 Homo sapiens cDNA
11955	24941	38644	2.89	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11955	24941	38645	2.89	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11956	18785	31831	1.48	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11956	18785	31832	1.48	0.0E+00	D26535.1	NT	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11958	24943	38647	11.38	0.0E+00	BF681641.1	EST_HUMAN	602165722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5'
11958	24943	38648	11.38	0.0E+00	BF681641.1	EST_HUMAN	602165722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5'
11964	24949	38655	1.79	0.0E+00	AU132940.1	EST_HUMAN	AU132940 NT2RP4 Homo sapiens cDNA clone NT2RP4000929 5'
11967	24952	38657	4.99	0.0E+00	BE90372.1	EST_HUMAN	601676357F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958935 5'
11963	24968	38671	1.56	0.0E+00	BF312652.1	EST_HUMAN	601897524F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127069 5'
11963	24968	38672	1.56	0.0E+00	BF312652.1	EST_HUMAN	601897524F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127069 5'
11986	24971	38675	3.4	0.0E+00	X51765.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11986	24971	38676	3.4	0.0E+00	X51765.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11988	24983	38700	1.98	0.0E+00	BE906402.1	EST_HUMAN	601498553F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3900396 5'
12013	24967	38700	1.46	0.0E+00	BE935487	NT	Human endogenous retrovirus, complete genome
12028	25072	38713	8.57	0.0E+00	BF309120.1	EST_HUMAN	601890534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131416 5'
12029	25012	38714	2.37	0.0E+00	BE698861.1	EST_HUMAN	RC4-NN0025-120600-016-507 NN0025 Homo sapiens cDNA
12029	25012	38714	2.37	0.0E+00	BE698861.1	EST_HUMAN	RC4-NN0025-120600-016-507 NN0025 Homo sapiens cDNA
12032	25015	38717	60.96	0.0E+00	BE297175.1	EST_HUMAN	601177407F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3632868 5'
12046	25027	38733	1.42	0.0E+00	BE744811.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
12046	25027	38734	1.42	0.0E+00	BE744811.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
12054	25035	38741	2.02	0.0E+00	BE257612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
12054	25035	38742	2.02	0.0E+00	BE257612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12084	25064	38770	2.85	0.0E+00	BE545535.1	EST_HUMAN	601070391F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458407 5'
12087	25067	38773	1.34	0.0E+00	AA399001.1	EST_HUMAN	2833401.1 Soares_NHT Homo sapiens cDNA clone IMAGE:729912 5' similar to SW:PMT1_SCHPO P40899 DNA METHYLTRANSFERASE PMT1;
12088	25068	38774	1.55	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002812 5'
12088	25068	38775	1.55	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002812 5'
12091	25071	38778	1.72	0.0E+00	BE780453.1	EST_HUMAN	601488712F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3871899 5'
12108	25088	38792	2.15	0.0E+00	AW289890.1	EST_HUMAN	xy48h03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2816213 3' similar to gbL11706 cds1 HORMONE SENSITIVE LIPASE (HUMAN);
12118	25098	38803	1.99	0.0E+00	AU132394.1	EST_HUMAN	AU132394 NT2RP3 Homo sapiens cDNA clone NT2RP3004339 5'
12131	25111	38815	1.35	0.0E+00	BE292840.1	EST_HUMAN	601105652F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2888325 5'
12147	26185	31540	9.34	0.0E+00	BE312542.1	EST_HUMAN	601150023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 5'
12160	26005		3.02	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
12162	26013		5.49	0.0E+00	AI190993.1	EST_HUMAN	9q17b12.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1739231 3'
12172	25134		3.73	0.0E+00	AB011389.1	NT	Homo sapiens gene for AF-8, complete cds
12192	25149		6.87	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
12194	25151		1.35	0.0E+00	AB016185.1	NT	Homo sapiens ELK1 pseudogene (ELK2) and immunoglobulin heavy chain gamma pseudogene (IGHGP)
12201	25158		3.2	0.0E+00	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIA0330), mRNA
12220	25170		4.95	0.0E+00	5802873	NT	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA
12264	25973	31767	1.47	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12287	25983		3.47	0.0E+00	AL041931.1	EST_HUMAN	DKFZp434K0819_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434K0819 5'
12285	26146		3.39	0.0E+00	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
12304	25222		4.77	0.0E+00	AL046844.1	EST_HUMAN	DKFZp434G218_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434G218 5'
12317	25017		2.92	0.0E+00	A1903497.1	EST_HUMAN	IL-BT030-271098-001 BT030 Homo sapiens cDNA yy40e08.s1 Soares_fetal_liver_spleen_TNFSL Homo sapiens cDNA clone IMAGE:245222 3' similar to SW:POL_BAEVM P10272 POL POLYPROTEIN;
12356	26172		1.88	0.0E+00	N54484.1	EST_HUMAN	Homo sapiens adenylosuccinate lyase gene, complete cds
12371	25265		4.08	0.0E+00	AF106656.1	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12374	14042	27108	5.36	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12374	14042	27107	5.36	0.0E+00	4507600	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12383	26021		3.07	0.0E+00	10092587	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA
12415	13754		4.88	0.0E+00	AF003528.1	NT	Homo sapiens X-linked ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions

Table 4

Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12450	25781	31937	3.95	0.0E+00	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12510	25950	31765	1.84	0.0E+00	AW590082.1	EST_HUMAN	hg31e08.x1 NC1_CGAP_G06 Homo sapiens cDNA clone IMAGE:2947234 3' similar to contains Alu
12542	25982		1.34	0.0E+00	L20493.1	NT	repetitive element contains element MER22 repetitive element ;
12573	25915		2.73	0.0E+00	AF089757.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
12618	25416		4.81	0.0E+00	9935487	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12638	25429		1.19	0.0E+00	AV720678.1	EST_HUMAN	Human endogenous retrovirus, complete genome
12660	25009		3.51	0.0E+00	AI204914.1	EST_HUMAN	AV720678 GLC Homo sapiens cDNA clone GLCEP009 5'
12694	25462		1.33	0.0E+00	AI904946.1	EST_HUMAN	an05h04.x1 Strabagene echizo brain S11 Homo sapiens cDNA clone IMAGE:1884759 3'
12702	26008		2.29	0.0E+00	BE439792.1	EST_HUMAN	QV-BT065-020399-103 BT066 Homo sapiens cDNA
12714	15187	28297	1.39	0.0E+00	6912457	NT	HTM1-654F HTM1 Homo sapiens cDNA
12714	15187	28298	1.39	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12739	25490	32027	1.21	0.0E+00	AF036395.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12751	14869	27960	3.28	0.0E+00	H30132.1	EST_HUMAN	Homo sapiens caveolin-3 (CAV3) mRNA, complete cds
12751	14869	27961	3.28	0.0E+00	H30132.1	EST_HUMAN	gamma5e08.r1 Scores breast 3NHBst Homo sapiens cDNA clone IMAGE:182248 5' similar to gb:IM64069
12755	13979	27031	1.6	0.0E+00	AB011396.1	NT	GAMMA-GLUTAMYLTRANSPETIDASE 5 PRECURSOR (HUMAN);
12766	25509		33.13	0.0E+00	D50659.1	NT	GAMMA-GLUTAMYLTRANSPETIDASE 5 PRECURSOR (HUMAN);
12771	25514	31997	5.44	0.0E+00	11418189	NT	Human gamma-cytoplasmic actin (ACTG9) pseudogene
12771	25514	31998	5.44	0.0E+00	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12776	25518		7.88	0.0E+00	AB028896.1	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12798	18294	28420	1.7	0.0E+00	4758489	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
12837	25557		2.11	0.0E+00	AW66499.1	EST_HUMAN	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
12847	25563	31088	1.43	0.0E+00	11430460	NT	h88a08.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979154 3'
12892	14409	27471	1.74	0.0E+00	8922593	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12927	15558	29573	3.11	0.0E+00	4885312	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
12935	18494	31632	2.3	0.0E+00	6806918	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
12938	25517		1.88	0.0E+00	AB029900.1	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12981	25533	31083	1.82	0.0E+00	9339724	NT	Homo sapiens CST gene for cerebroside sulfoltransferase, exon 1, 2, 3, 4, 5
13010	26197		2.93	0.0E+00	AL163246.2	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
13017	13428	28851	2.46	0.0E+00	6806918	NT	Homo sapiens chromosome 21 segment HS21C048
13113	25728	31943	1.17	0.0E+00	11417882	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
							Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA

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Table 4
Single Exon Probes Expressed in Placenta

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
13116	25728		1.4	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
13119	25731		3.11	0.0E+00	7857020	NT	Homo sapiens DKFZp434P211 protein (DKFZp434P211), mRNA
13140	25740		5.96	0.0E+00	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
13151	26207		1.16	0.0E+00	AW505178.1	EST_HUMAN	UI-HF-BN0-aly-8-08-0-JL7r NIH_MGC 50 Homo sapiens cDNA clone IMAGE:3081399 8'
13190	25774		1.51	0.0E+00	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
13208	16135	28151	1.37	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13208	16135	28152	1.37	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
13215	14345	27402	1.29	0.0E+00	9866844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA

CLAIMS

1. A spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived
5 from human placenta comprising a plurality single exon nucleic probes, said probes comprising any one of the nucleotide sequences set out in SEQ ID NOS: 1 - 13,232 or a complementary sequence, or a portion of such a sequence.
- 10 2. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably amplifiable.
3. A spatially-addressable set of single exon nucleic acid
15 probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably isolatable from said plurality.
4. A spatially-addressable set of single exon nucleic acid
20 probes as claimed in any of claims 1 to 3 wherein said probes comprise any one of the nucleotide sequences set out in SEQ ID NOS.: 13,233 - 26,232.
5. A spatially-addressable set of single exon nucleic acid
25 probes as claimed in any of claims 1 to 4, wherein each of said plurality of probes is amplifiable using at least one common primer.
6. A spatially-addressable set of single exon nucleic acid
30 probes as claimed in any of claims 1 to 5 wherein the set comprises between 50 - 20,000 single exon nucleic acid probes.
7. A spatially-addressable set of single exon nucleic acid
35 probes as claimed in any of claims 1 to 6, wherein the

average length of the single exon nucleic acid probes is between 200 and 500 bp.

8. A spatially-addressable set of single exon nucleic acid
5 probes as claimed in any of claims 1 to 7, wherein at least 50% of said single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence.

9. A spatially-addressable set of single exon nucleic acid
10 probes as claimed in any of claims 1 to 8, wherein at least 50% of said single exon nucleic acid probes lack homopolymeric stretches of A or T.

10. A spatially-addressable set of single exon nucleic acid
15 probes as claimed in any of claims 1 - 9 characterised in that said set of probes is addressably disposed upon a substrate.

11. A spatially-addressable set of single exon nucleic acid
20 probes as claimed in claim 10 wherein said substrate is selected from glass, amorphous silicon, crystalline silicon and plastic.

12. A microarray comprising a spatially addressable set of
25 single exon nucleic acid probes as claimed in any of claims 1 - 11.

13. A single exon nucleic acid probe for measuring human
gene expression in a sample derived from human placenta
30 comprising a nucleotide sequence as set out in any of SEQ ID NOs.: 1 - 13,232 or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid molecule expressed in the human placenta.

35

~~14. A single exon nucleic acid probe as claimed in claim 13~~
comprising a nucleotide sequence as set out in any of SEQ
ID NOs.: 13,233 - 26,232 or a complementary sequence or a
fragment thereof.

5

15. A single exon nucleic acid probe for measuring human
gene expression in a sample derived from human placenta
which is a nucleic acid molecule having a sequence encoding
a peptide comprising a peptide sequence as set out in any
10 of SEQ ID NOs.: 26,233 - 38,837, or a complementary
sequence or a fragment thereof wherein said probe
hybridizes at high stringency to a nucleic acid expressed
in the human placenta.

15 16. A single exon nucleic acid probe as claimed in any one
of claims 13 to 15 wherein said single exon nucleic acid
probe comprises between 15 and 25 contiguous nucleotides of
said SEQ ID NO.

20 17. A single exon nucleic acid probe as claimed in any one
of claims 13 to 15, wherein said probe is between 3 - 25 kb
in length.

18. A single exon nucleic acid probe as claimed in any one
25 of claims 13 - 17, wherein said probe is DNA, RNA or PNA.

19. A single exon nucleic acid probe as claimed in any one
of claims 13 - 18, wherein said probe is detectably
labeled.

30

20. A single exon nucleic acid probe as claimed in any one
of claims 13 - 19, wherein said probe lacks prokaryotic and
bacteriophage vector sequence.

35 21. A single exon nucleic acid probe as claimed in any one

of claims 13 - 20, wherein said probe lacks homopolymeric stretches of A or T.

22. A method of measuring gene expression in a sample
5 derived from human placenta, comprising:
 contacting the microarray of claim 12, with a first
 collection of detectably labeled nucleic acids,
 said first collection of nucleic acids derived
 from mRNA of human placenta; and then
10 measuring the label detectably bound to each probe of
 said microarray.

23. A method of identifying exons in a eukaryotic genome,
comprising:
15 algorithmically predicting at least one exon from
 genomic sequence of said eukaryote; and then
 detecting specific hybridization of detectably labeled
 nucleic acids to a single exon probe,
wherein said detectably labeled nucleic acids are derived
20 from mRNA from the placenta of said eukaryote, said probe
is a single exon probe having a fragment identical in
sequence to, or complementary in sequence to, said
predicted exon, said probe is included within a microarray
according to claim 12, and said fragment is selectively
25 hybridizable at high stringency.

24. A method of assigning exons to a single gene,
comprising:
 identifying a plurality of exons from genomic
30 sequence according to the method of claim 23; and
 then
 measuring the expression of each of said exons in a
 plurality of tissues and/or cell types using
 hybridization to single exon microarrays having a
35 probe with said exon,

wherein a common pattern of expression of said exons in said plurality of tissues and/or cell types indicates that the exons should be assigned to a single gene.

5 25. A nucleic acid sequence as set out in any of SEQ ID Nos: 1 - 26,232 which encodes a peptide.

26. A peptide encoded by a sequence as set out in any of SEQ ID Nos: 1 - 26,232.

10

27. A peptide comprising a sequence as set out in any of SEQ ID Nos: 26,233 - 38,837.

1/10

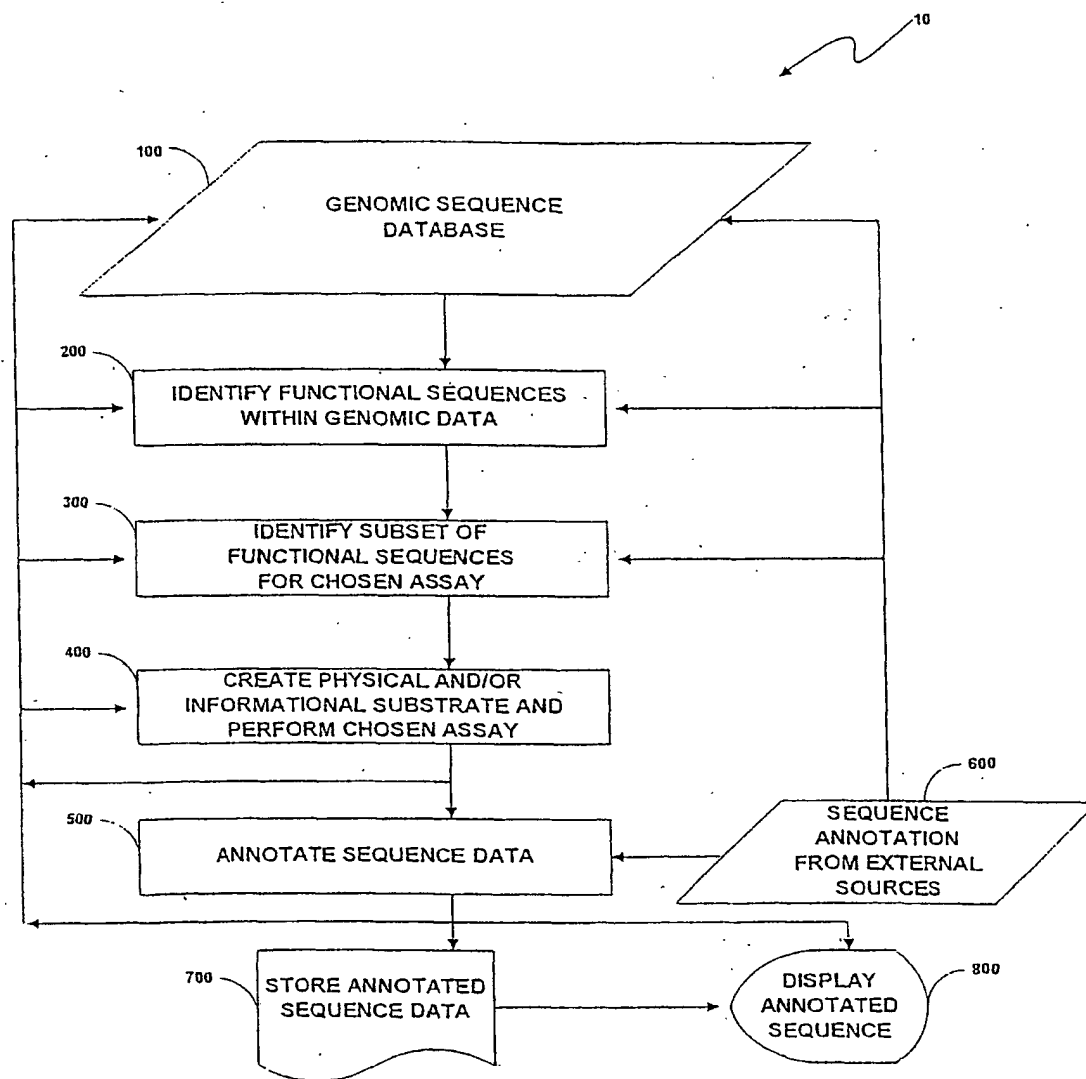


Fig. 1

2/10

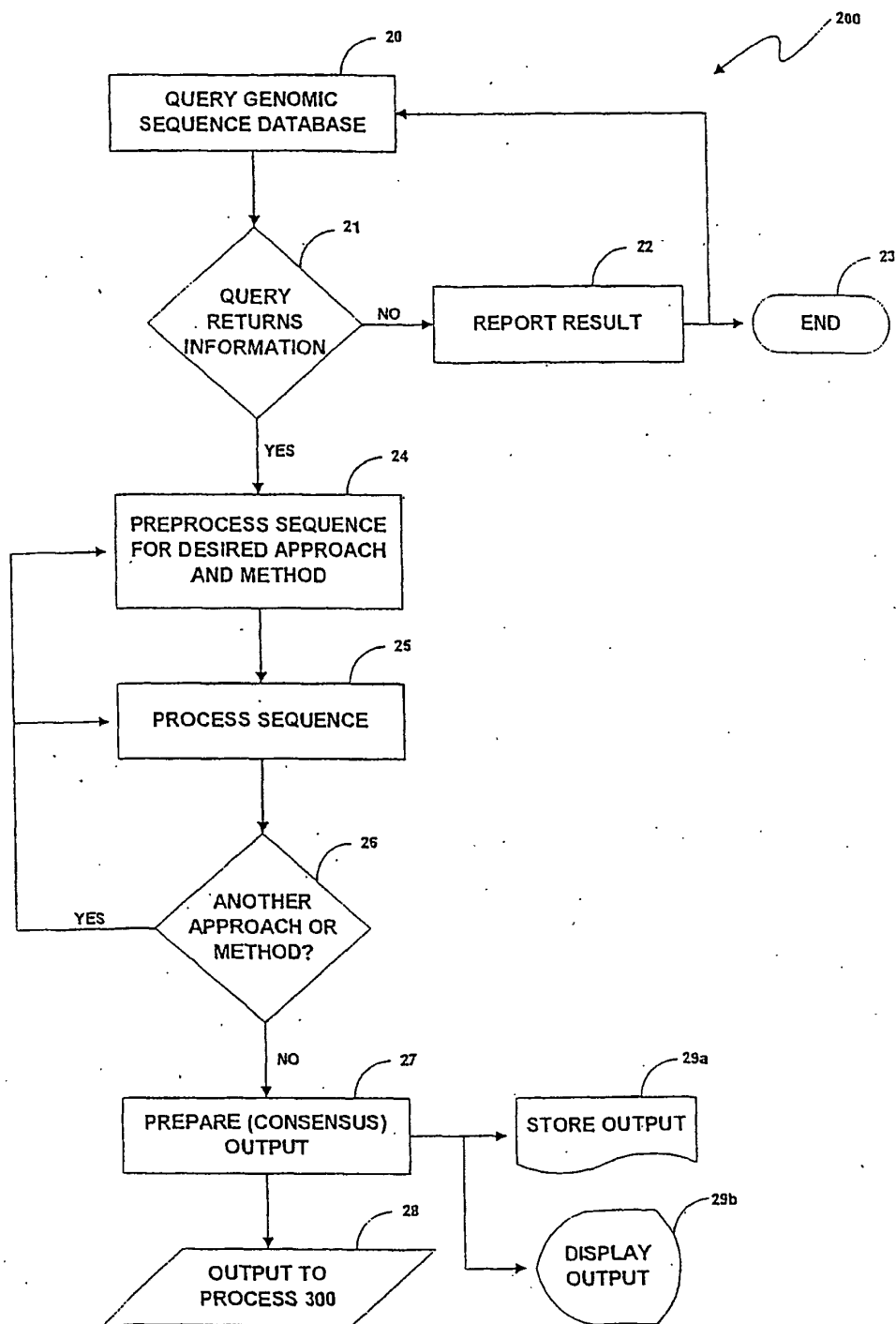


Fig. 2

3/10

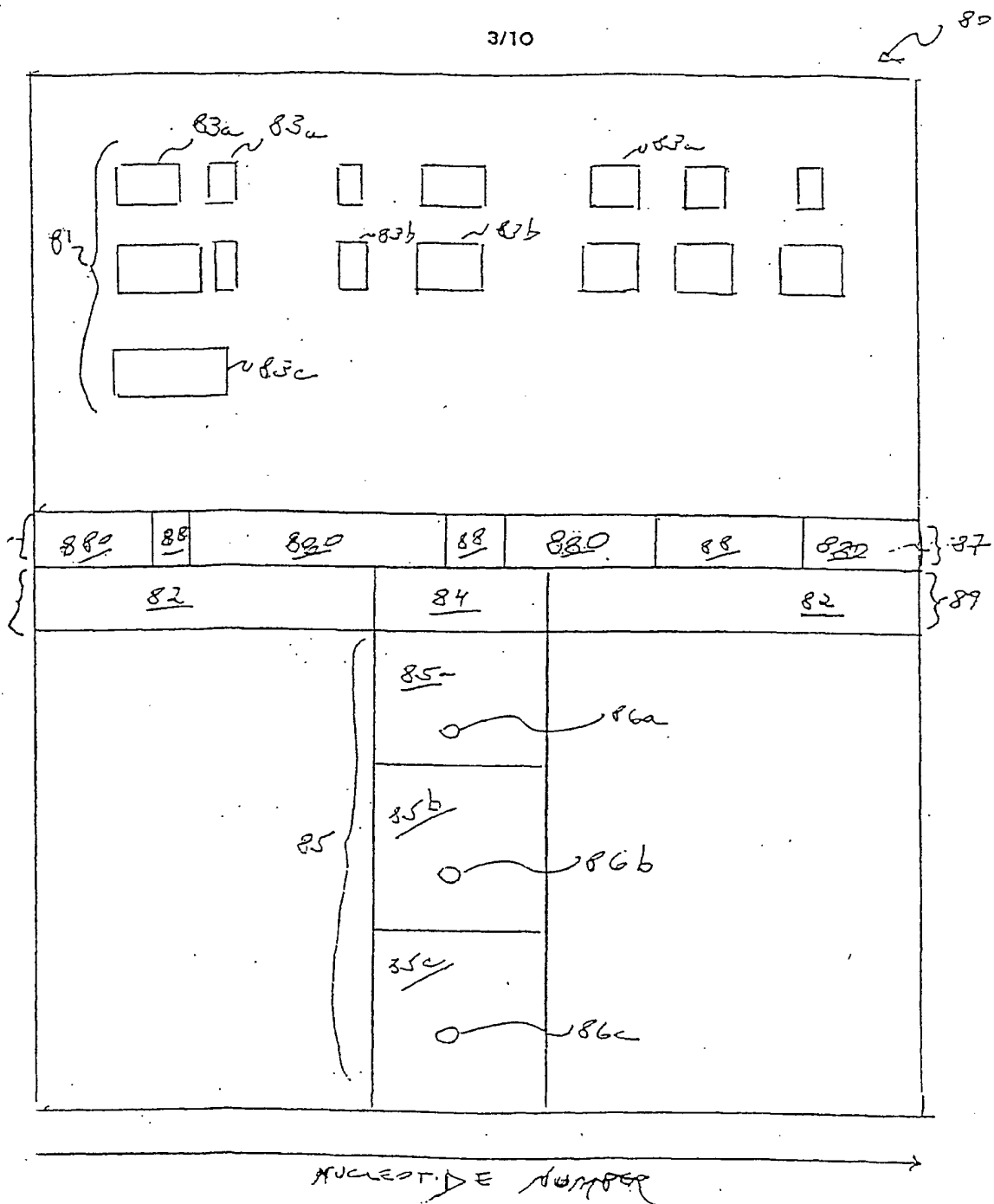


Fig. 3

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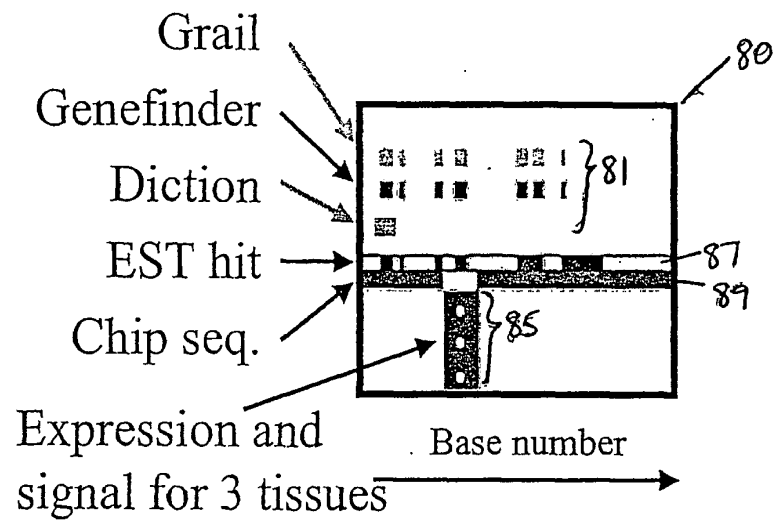


Fig. 4

5/10

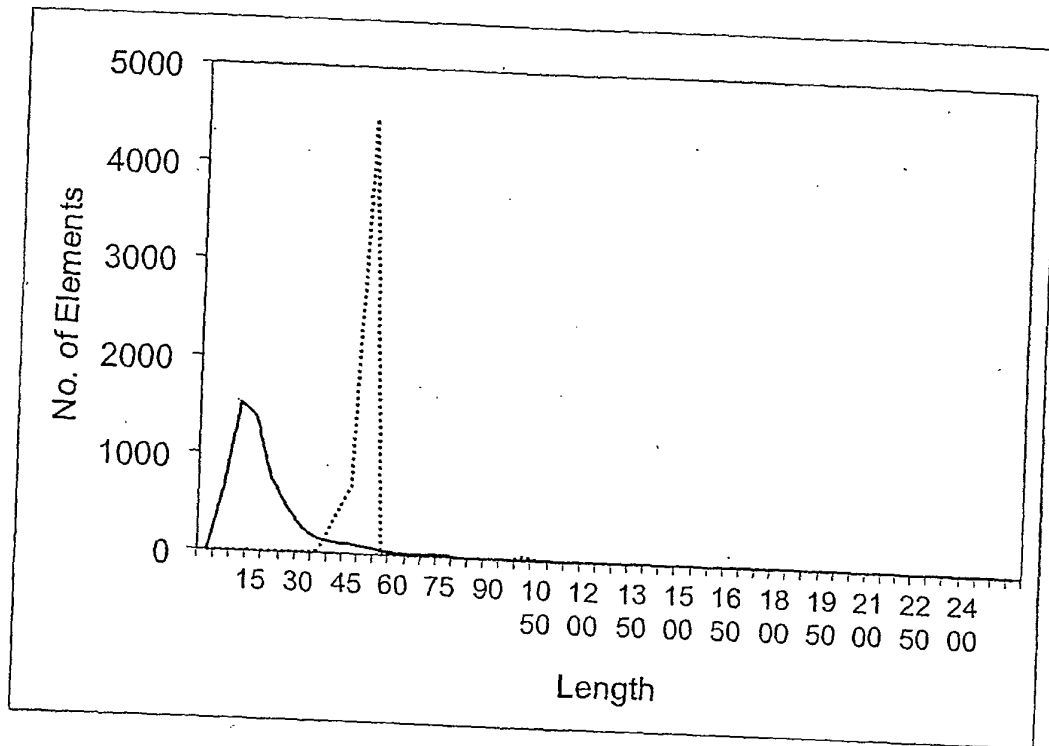


Fig. 5

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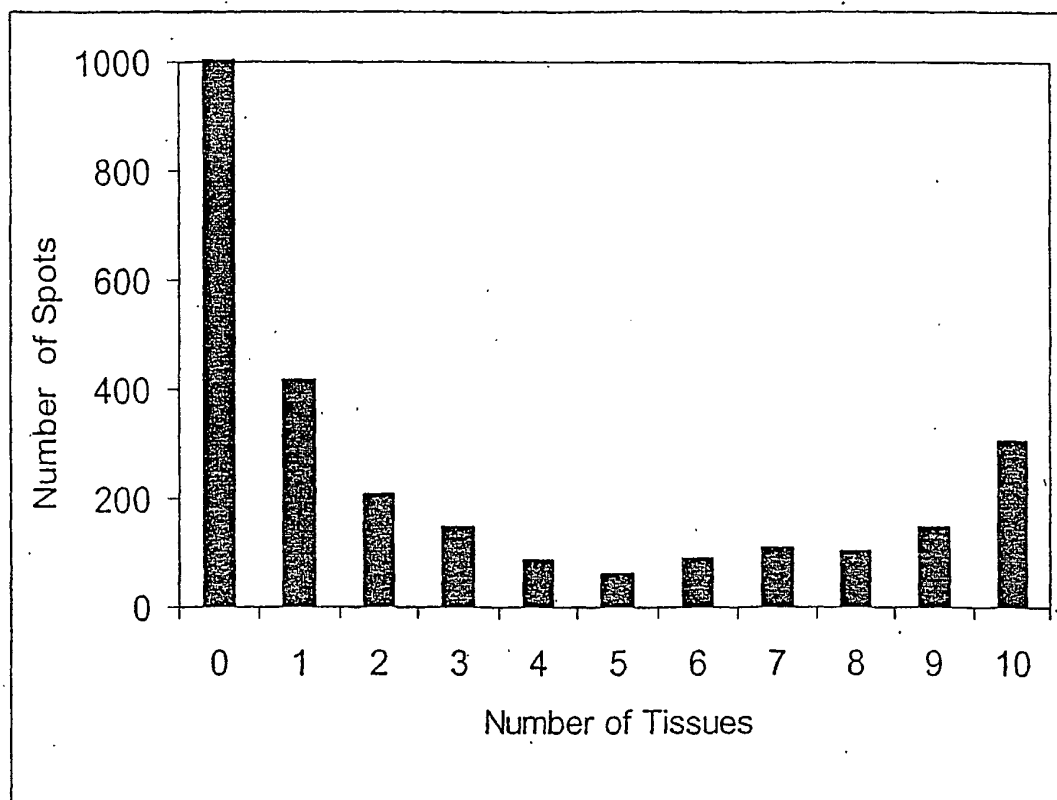


Fig. 6

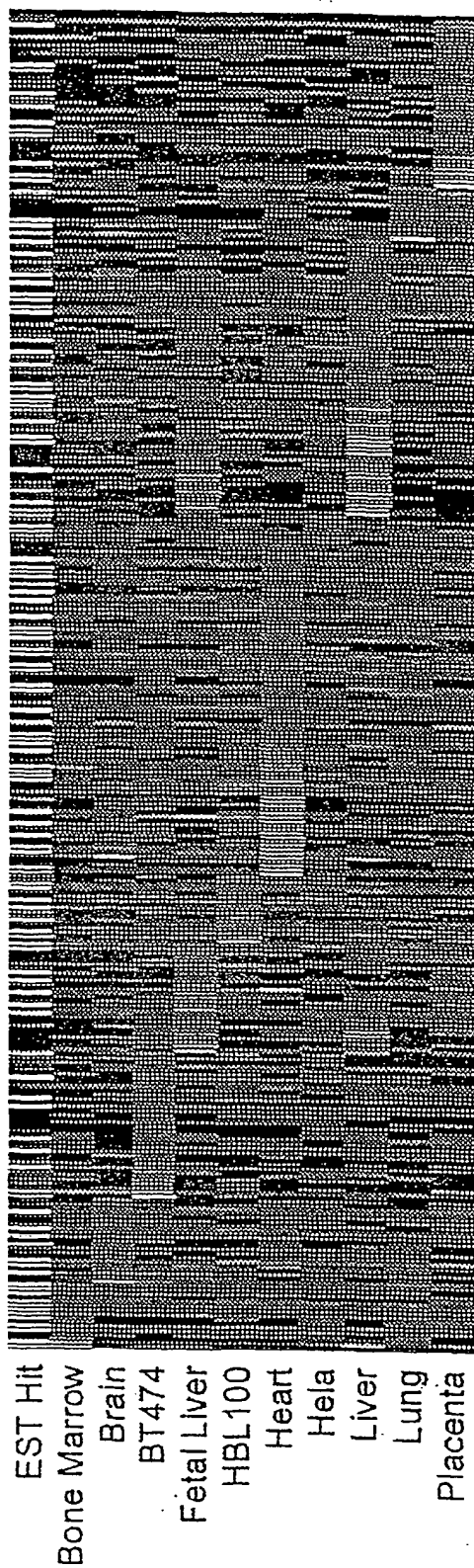


Fig. 7a

EST Hit
Bone Marrow
Brain
BT474
Fetal Liver
HBL100
Heart
Hela
Liver
Lung
Placenta

ratio legend

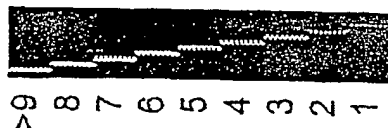


Fig. 7b

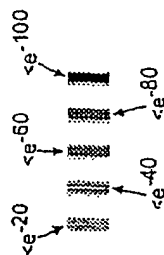


Fig. 7c

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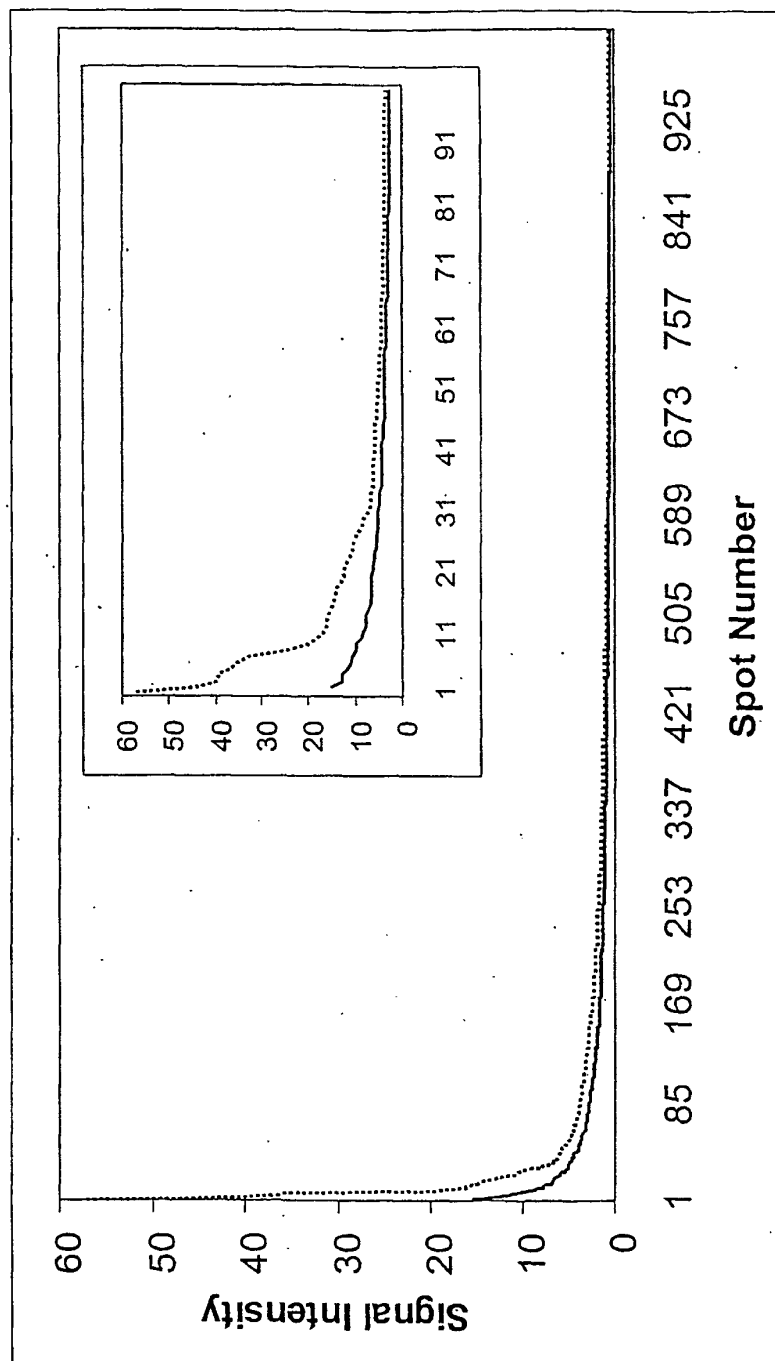


Fig. 8

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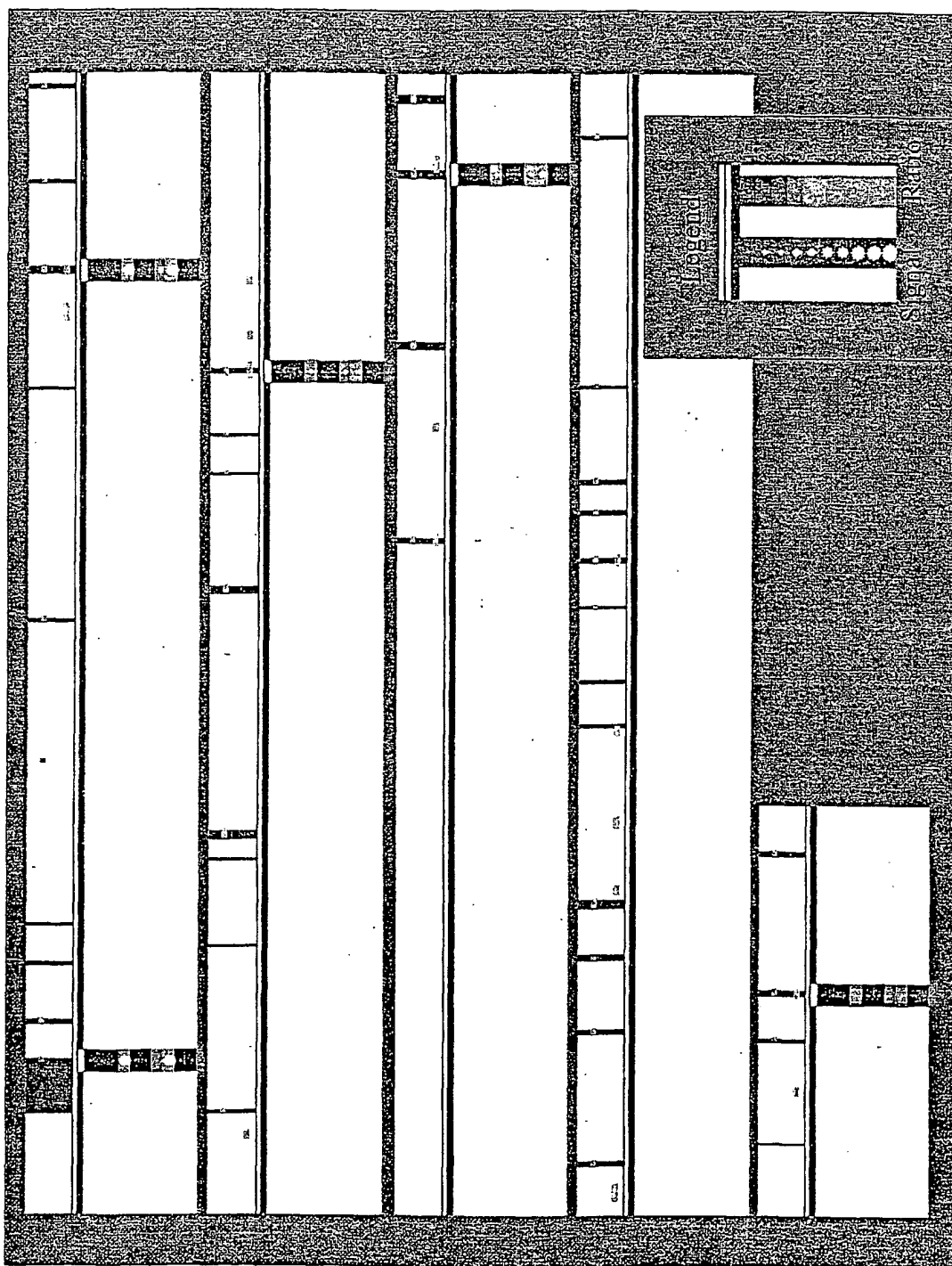


Fig. 9

10/10

Fig. 10

